

PRODUCT CATALOG

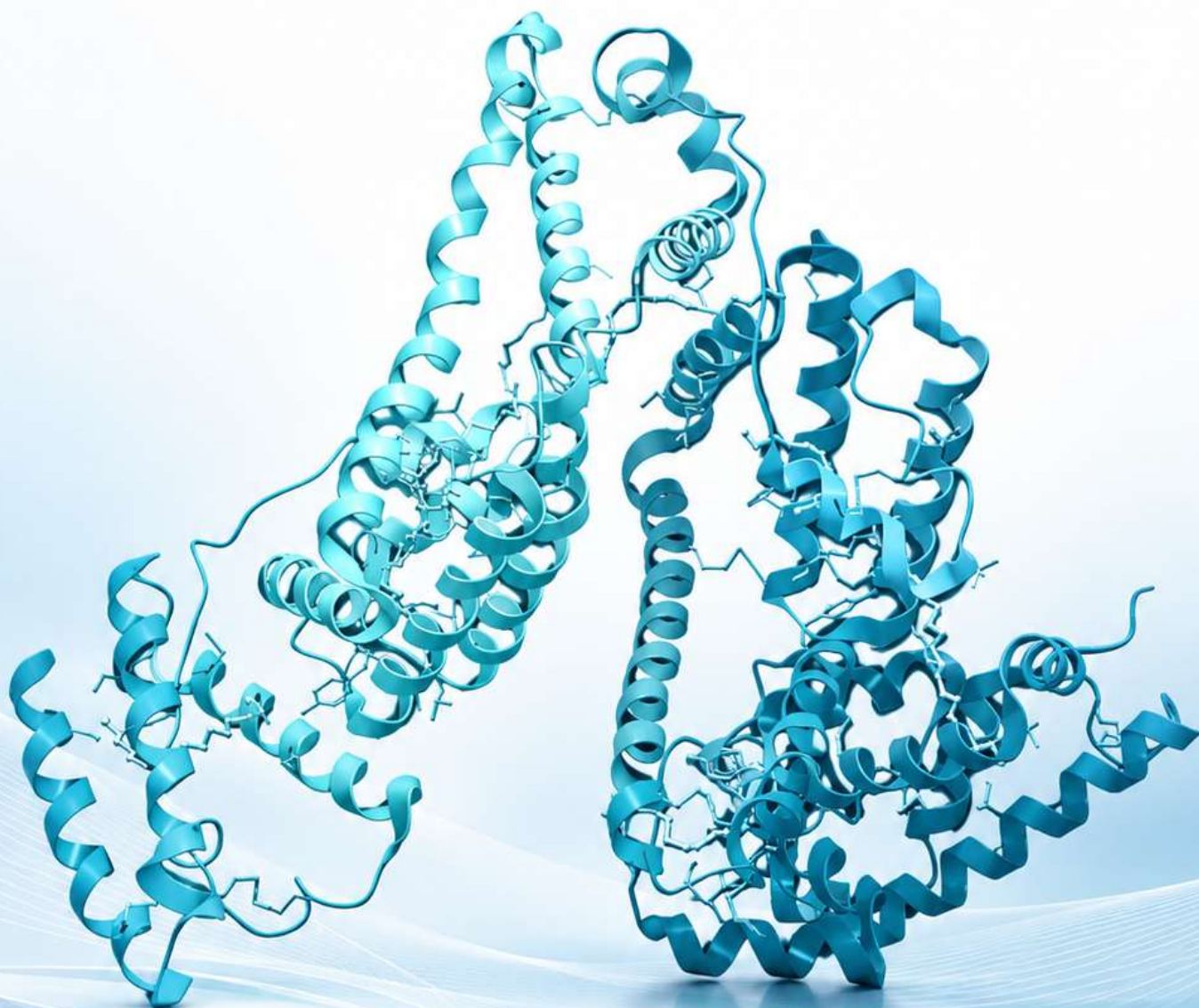


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ABOUT HLA Protein Technologies

HLA Protein Technologies Inc. has developed a proprietary way to produce a large library of soluble Class I and Class II HLA proteins. HLA proteins are the gatekeepers of the immune system. HLA proteins serve as the carriers of peptide epitopes which represent the minimal unit of information required by T cells to generate an immune response.

Using soluble HLA (sHLA) technology, HLA Protein Technologies Inc. has developed a portfolio of recombinant Class I and Class II HLA proteins that are synthesized in mammalian cells, natively folded, naturally glycosylated, and endogenously peptide-loaded. Unlike proteins refolded in vitro, these retain the conformation and peptide-binding behavior of native human HLA.

With HLA Protein Technologies Inc., the reagent stops being a variable in your experiment. Our patented technology produces defined, correctly folded HLA proteins at scale, eliminating the batch-to-batch inconsistency, instability, and detergent interference that come with lysate-derived HLA.

HLA Protein's twenty-plus years of HLA production experience, dating back to Pure Protein L.L.C. in Oklahoma City, stands behind every reagent we ship. Our catalog spans more than 125 Class I and 150 Class II molecules, produced under standardized SOPs with lot-traceable QC, and supports researchers in more than twenty countries. A team with over 100 years of combined HLA experience is why our proteins behave the same way in your assay every time.



HLA Protein Applications

HLA Protein Technologies offers over 400 natively folded, soluble HLA molecules spanning Class I (HLA-A, B, C, G) and Class II (HLA-DR, DQ, DP), in unconjugated and biotinylated forms that can be used in a variety of research applications.

HLA Antibody Applications

Purified HLA antigens are the targets used to detect anti-HLA antibodies in a patient's serum. These antibodies can form after pregnancy, blood transfusion, or a previous transplant, and they raise the risk of graft rejection. Characterizing HLA class I and class II antibodies show which specificities a patient is sensitized to and how strongly. Comparing that profile against a potential donor's HLA type reveals any donor-specific antibodies (DSA) that may increase the patient's rejection risk.

B-cell Applications

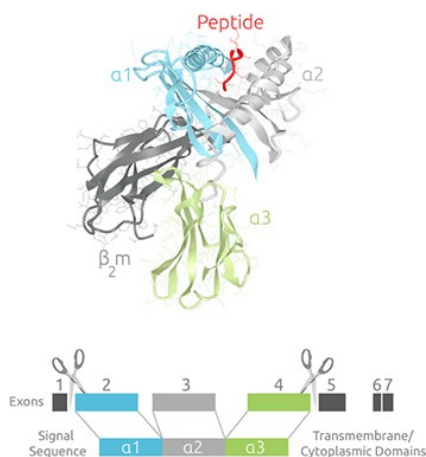
In B cell research, fluorescently labeled recombinant HLA proteins serve as antigen probes to detect, sort, and clone HLA-specific memory B cells, such as those in sensitized transplant patients, while HLA class II molecules are also studied for their role in letting B cells present antigen to helper T cells.

T-cell Applications

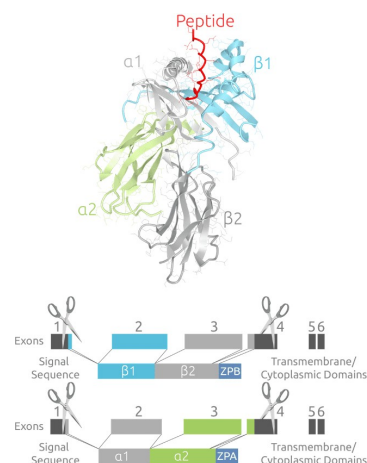
HLA molecules are central tools in T cell research because they carry peptide fragments to the cell surface, where T cells recognize them through their T cell receptors (TCRs). When recombinant HLA proteins are loaded with a specific peptide, typically as tetramers, they bind antigen-specific T cells strongly enough to detect them directly.

Researchers use these reagents to count and sort rare T cell populations by flow cytometry, track responses to vaccines, infections, tumors, and autoimmune targets, and isolate cells for TCR sequencing or cell therapy development. Monomeric peptide–HLA complexes are also used in binding and affinity assays, epitope discovery, and as targets for engineering TCRs and TCR-mimic antibodies.

Soluble HLA Class I



Soluble HLA Class II



HLA Protein Configurations

HLA Protein Technologies offers HLA molecules in non-modified, biotinylated, or fluorophore-labeled formats, available as monomers or tetramers. Our standard products contain endogenous peptides, while custom peptide-engineered HLA complexes are also available for selected alleles.

Non-modified soluble HLA Monomers

HLA



Features

- ❖ Highest Purity and Stability
- ❖ Native and 3D compliant
- ❖ Large selection of >280 Class I and Class II alleles

Applications

- ❖ HLA Antibody Detection Assays
- ❖ HLA Immunization Procedures
- ❖ HLA Neutralization Assays

Biotinylated soluble HLA Monomers

HLA^{bio}



Features

- ❖ High-quality and integrity
- ❖ Compatible with standard streptavidin-based systems
- ❖ Enhanced Detection Sensitivity

Applications

- ❖ Streptavidin-based ELISA's
- ❖ Avidin-coated bead applications
- ❖ Flow cytometry

Fluorophore-labeled soluble HLA Tetramers

HLA^{TetrFLP}



Features

- ❖ Exceptional Specificity and Sensitivity
- ❖ Customizable
- ❖ Ready-to-Use

Applications

- ❖ Flow Cytometry
- ❖ FluoroSpot Assay
- ❖ Fluorescent Activated Cell Sorting [FACS]

Fluorophore-labeled soluble HLA Monomers

HLA^{FLP}



Features

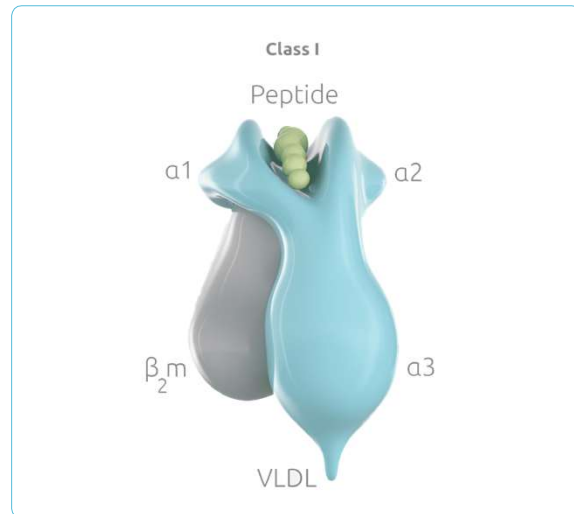
- ❖ Monomeric Forms
- ❖ More brightness with Alexa Fluor dyes
- ❖ Tested for kinetic analysis

Applications

- ❖ Flow Cytometry
- ❖ FluoroSpot Assay
- ❖ SPR and BLI-based Ab binding

Class I Portfolio

HLA Class I genes are highly polymorphic, representing the genetically most variable gene region by encoding thousands of different alleles. HLA Protein Technologies Inc offers a wide selection of single-specificity HLA proteins with broad population coverage. All HLA reagents go through a stringent quality control process before shipping to ensure optimal performance.



Soluble Class I proteins are well characterized, proven to present native, antigenic epitopes recognized by specific antibodies, demonstrate high stability and integrity of their structures over time and are compliant on many application platforms as well as adaptable for individual needs.

HLA-A

Choose from more than 35 HLA-A alleles to detect, profile, or monitor antigen-specific immune responses from antibodies to immune cell populations

HLA-C

Discover a selection of over 20 HLA-C alleles, the dominant ligand for KIR on NK cells for your immunological research

HLA-B

Select from a pool of over 65 HLA-B alleles to drive your immunological research to identify antibody immune responses or visualize antigen-specific immune cells

HLA-G

Explore our HLA-G portfolio—designed for true-to-biology structure, verified function, and cross-disciplinary immunological discovery.

SKU	NAME	SERO-LOGICAL NAME	ALLELE FREQUENCY %	HLA SPECIES	HOST CELL LINE SPECIES	PEPTIDE SOURCE	CONFIGURATION	STORAGE TEMPERATURE	GRADE
A0101	HLA-A*01:01	A1	7%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A0201	HLA-A*02:01	A2	12%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A0202	HLA-A*02:02	A2	2%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A0203	HLA-A*02:03	A203	3%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A0205	HLA-A*02:05	A2	2%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A0206	HLA-A*02:06	A2	3%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A0207	HLA-A*02:07	A2	4%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A0301	HLA-A*03:01	A3	5%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A1101	HLA-A*11:01	A11	11%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A1102	HLA-A*11:02	A11	1.6%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A2301	HLA-A*23:01	A23	4%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A2302	HLA-A*23:02	A23	0.1%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A2402	HLA-A*24:02	A24	13%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A2403	HLA-A*24:03	A2403	0.7%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A2407	HLA-A*24:07	A24	2.9%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A2501	HLA-A*25:01	A25	1%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A2601	HLA-A*26:01	A26	3.5%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A2901	HLA-A*29:01	A29	1%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]

SKU	NAME	SERO-LOGICAL NAME	ALLELE FREQUENCY %	HLA SPECIES	HOST CELL LINE SPECIES	PEPTIDE SOURCE	CONFIGURATION	STORAGE TEMPERATURE	GRADE
A2902	HLA-A*29:02	A29	2.4%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A3001	HLA-A*30:01	A30	2.7%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A3002	HLA-A*30:02	A30	2.2%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A3101	HLA-A*31:01	A31	4%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A3201	HLA-A*32:01	A32	2.6%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A3204	HLA-A*32:04	A32	0.1%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A3301	HLA-A*33:01	A33	1.8%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A3303	HLA-A*33:03	A33	4.5%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A3401	HLA-A*34:01	A34	3.8%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A3402	HLA-A*34:02	A34	1%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A3601	HLA-A*36:01	A36	1%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A4301	HLA-A*43:01	A43	0%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A6601	HLA-A*66:01	A66	1%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A6602	HLA-A*66:02	A66	0%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A6801	HLA-A*68:01	A68	3%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A6802	HLA-A*68:02	A68	2%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A6901	HLA-A*69:01	A69	1%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A7401	HLA-A*74:01	A74	1.6%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
A8001	HLA-A*80:01	A80	0.4%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]

SKU	NAME	SERO-LOGICAL NAME	ALLELE FREQUENCY %	HLA SPECIES	HOST CELL LINE SPECIES	PEPTIDE SOURCE	CONFIGURATION	STORAGE TEMPERATURE	GRADE
B0702	HLA-B*07:02	B7	3.8%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B0703	HLA-B*07:03	B703	0.1%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B0801	HLA-B*08:01	B8	4.2%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B1301	HLA-B*13:01	B13	4.1%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B1302	HLA-B*13:02	B13	2.3%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B1401	HLA-B*14:01	B64	0.8%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B1402	HLA-B*14:02	B65	2.7%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B1405	HLA-B*14:05	B14	0.2%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B1406	HLA-B*14:06	B14	0.1%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B1501	HLA-B*15:01	B62	3.3%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B1502	HLA-B*15:02	B75	2.8%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B1503	HLA-B*15:03	B72	1.5%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B1508	HLA-B*15:08	B75	0.2%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B1510	HLA-B*15:10	B71	0.7%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B1511	HLA-B*15:11	B75	0.3%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B1512	HLA-B*15:12	B76	0.2%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B1513	HLA-B*15:13	B77	0.9%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B1516	HLA-B*15:16	B63	0.4%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B1518	HLA-B*15:18	B71	0.5%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]

SKU	NAME	SERO-LOGICAL NAME	ALLELE FREQUENCY %	HLA SPECIES	HOST CELL LINE SPECIES	PEPTIDE SOURCE	CONFIGURATION	STORAGE TEMPERATURE	GRADE
B1523	HLA-B*15:23	B70	0.1%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B1801	HLA-B*18:01	B18	3.9%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B2701	HLA-B*27:01	B27	0.1%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B2702	HLA-B*27:02	B27	0.7%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B2703	HLA-B*27:03	B27	0.4%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B2704	HLA-B*27:04	B27	1%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B2705	HLA-B*27:05	B27	1.6%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B2706	HLA-B*27:06	B27	1.6%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B2708	HLA-B*27:08	B2708	0.1%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B3501	HLA-B*35:01	B35	5.1%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B3505	HLA-B*35:05	B35	2%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B3508	HLA-B*35:08	B35	1.6%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B3701	HLA-B*37:01	B37	1.5%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B3801	HLA-B*38:01	B38	2.1%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B3901	HLA-B*39:01	B3901	2.6%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B3905	HLA-B*39:05	B39	1.6%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B4001	HLA-B*40:01	B60	4.5%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B4002	HLA-B*40:02	B61	5%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B4006	HLA-B*40:06	B61	2.1%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]

SKU	NAME	SERO- LOGICAL NAME	ALLELE FRE- QUENCY %	HLA SPECIES	HOST CELL LINE SPECIES	PEPTIDE SOURCE	CONFIGU- RATION	STORAGE TEMPERA- TURE	GRADE
B4101	HLA-B*41:01	B41	1.3%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B4201	HLA-B*42:01	B42	1.6%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B4202	HLA-B*42:02	B42	0.4%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B4402	HLA-B*44:02	B44	3.2%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B4403	HLA-B*44:03	B44	3.7%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B4405	HLA-B*44:05	B44	3.7%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B4501	HLA-B*45:01	B45	1.5%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B4601	HLA-B*46:01	B46	4.6%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B4701	HLA-B*47:01	B47	0.4%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B4801	HLA-B*48:01	B48	2.4%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B4901	HLA-B*49:01	B49	2%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B5001	HLA-B*50:01	B50	2%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B5101	HLA-B*51:01	B51	4.5%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B5102	HLA-B*51:02	B5102	1%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B5201	HLA-B*52:01	B52	2.5%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B5301	HLA-B*53:01	B53	2.7%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B5401	HLA-B*54:01	B54	1.5%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B5501	HLA-B*55:01	B55	1.4%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]

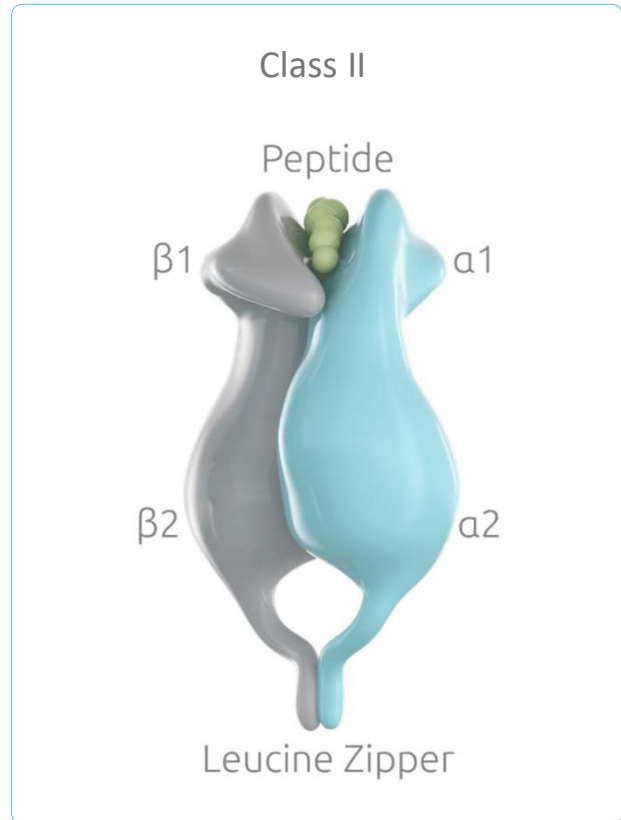
SKU	NAME	SERO-LOGICAL NAME	ALLELE FREQUENCY %	HLA SPECIES	HOST CELL LINE SPECIES	PEPTIDE SOURCE	CONFIGURATION	STORAGE TEMPERATURE	GRADE
B5601	HLA-B*56:01	B56	1.9%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B5602	HLA-B*56:02	B56	1.8%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B5604	HLA-B*56:04	B56	0.4%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B5701	HLA-B*57:01	B57	2.2%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B5702	HLA-B*57:02	B57	0.3%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B5703	HLA-B*57:03	B57	0.9%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B5801	HLA-B*58:01	B58	3.6%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B5802	HLA-B*58:02	B58	1.9%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B5901	HLA-B*59:01	B59	0.4%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B6701	HLA-B*67:01	B67	0.3%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B7301	HLA-B*73:01	B73	0.2%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B7801	HLA-B*78:01	B78	0.7%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B8101	HLA-B*81:01	B81	0.9%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
B8201	HLA-B*82:01	B82	0.2%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
C0102	HLA-C*01:02	Cw1	8.2%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
C0202	HLA-C*02:02	Cw2	3.1%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
C0302	HLA-C*03:02	Cw10	2.7%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
C0303	HLA-C*03:03	Cw9	4.2%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
C0304	HLA-C*03:04	Cw10	7.4%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]

SKU	NAME	SERO-LOGICAL NAME	ALLELE FREQUENCY %	HLA SPECIES	HOST CELL LINE SPECIES	PEPTIDE SOURCE	CONFIGURATION	STORAGE TEMPERATURE	GRADE
C0401	HLA-C*04:01	Cw4	10.9%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
C0403	HLA-C*04:03	Cw4	3.6%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
C0501	HLA-C*05:01	Cw5	3.8%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
C0602	HLA-C*06:02	Cw6	8%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
C0701	HLA-C*07:01	Cw7	7.4%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
C0702	HLA-C*07:02	Cw7	11.8%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
C0704	HLA-C*07:04	Cw7	1.5%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
C0801	HLA-C*08:01	Cw8	5.4%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
C0802	HLA-C*08:02	Cw8	2.7%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
C1202	HLA-C*12:02	–	2.8%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
C1203	HLA-C*12:03	–	3.9%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
C1402	HLA-C*14:02	Cw1	2.2%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
C1502	HLA-C*15:02	–	3.9%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
C1503	HLA-C*15:03	–	0.4%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
C1601	HLA-C*16:01	–	3.4%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
C1701	HLA-C*17:01	Cw7	2.3%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
C1801	HLA-C*18:01	Cw6	1%	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
E0103	HLA-E*01:03	–	–	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]
G0101	HLA-G*01:01	–	–	Human	Human	Endogenous	Monomer	4°C	Research Use Only [RUO]

Class II Portfolio

HLA Class II genes are highly polymorphic, encoding thousands of different alleles and potentially recombine to create isoform by combination of alpha and beta chains. HLA Protein Technologies Inc offers a broad selection of single-specificity HLA proteins covering not only population frequency but also isoform availability. Like their Class I counterpart, all HLA reagents go through a stringent quality control process before shipping to ensure optimal performance.

Soluble Class II proteins are well characterized, proven to present native, antigenic epitopes recognized by specific antibodies, demonstrate high stability and integrity of their structures and are most compliant to most application platforms as well as highly adaptable to individual needs.



HLA-DR

Discover a selection of over 40 HLA-DR alleles, the emerging marker for histocompatibility screening

HLA-DQ

Select from more than 60 HLA-DQ alleles to detect and monitor humoral or cellular antigen-specific immune responses

HLA-DP

Choose from a pool of over 50 HLA-DP alleles to research the variety of heterodimeric isoforms

SKU	NAME	SERO-LOGICAL NAME	ALLELE FREQUENCY %	HLA SPECIES	HOST CELL LINE SPECIES	PEPTIDE SOURCE	CONFIGURATION	STORAGE TEMPERATURE	GRADE
DRB10101	HLA-DRB1*01:01	DR1	3.6%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB10102	HLA-DRB1*01:02	DR1	2.4%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB10103	HLA-DRB1*01:03	DR103	0.6%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB10301	HLA-DRB1*03:01	DR17	6.1%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB10302	HLA-DRB1*03:02	DR18	1.2%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB10401	HLA-DRB1*04:01	DR4	3.2%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB10402	HLA-DRB1*04:02	DR4	1.8%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB10403	HLA-DRB1*04:03	DR4	3.5%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB10404	HLA-DRB1*04:04	DR4	2.5%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB10405	HLA-DRB1*04:05	DR4	3.4%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB10407	HLA-DRB1*04:07	DR4	5.2%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB10411	HLA-DRB1*04:11	DR4	4.1%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB10701	HLA-DRB1*07:01	DR7	8.8%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB10801	HLA-DRB1*08:01	DR8	1.6%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB10804	HLA-DRB1*08:04	DR8	1.3%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB10807	HLA-DRB1*08:07	DR8	1.2%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB10901	HLA-DRB1*09:01	DR9	5.2%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB10902	HLA-DRB1*09:02	DR9	0.2%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB11001	HLA-DRB1*10:01	DR10	2.2%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]

SKU	NAME	SERO-LOGICAL NAME	ALLELE FREQUENCY %	HLA SPECIES	HOST CELL LINE SPECIES	PEPTIDE SOURCE	CONFIGURATION	STORAGE TEMPERATURE	GRADE
DRB11101	HLA-DRB1*11:01	DR11	6.1%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB11104	HLA-DRB1*11:04	DR11	4%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB11301	HLA-DRB1*13:01	DR13	4%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB11303	HLA-DRB1*13:03	DR13	1.8%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB11401	HLA-DRB1*14:01	DR14	4.2%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB11402	HLA-DRB1*14:02	DR14	5.9%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB11454	HLA-DRB1*14:54	DR14	2.5%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB11501	HLA-DRB1*15:01	DR15	7.1%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB11502	HLA-DRB1*15:02	DR15	5.3%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB11503	HLA-DRB1*15:03	DR15	2.6%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB11601	HLA-DRB1*16:01	DR16	2%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB11602	HLA-DRB1*16:02	DR16	4.2%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB30101	HLA-DRB3*01:01	DR52	–	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB30202	HLA-DRB3*02:02	DR52	–	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB30301	HLA-DRB3*03:01	DR52	–	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB40101	HLA-DRB4*01:01	DR53	–	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB40103	HLA-DRB4*01:03	DR53	–	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB50101	HLA-DRB5*01:01	DR51	–	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DRB50102	HLA-DRB5*01:02	DR51	–	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]

SKU	NAME	SERO-LOGICAL NAME	ALLELE FREQUENCY %	HLA SPECIES	HOST CELL LINE SPECIES	PEPTIDE SOURCE	CONFIGURATION	STORAGE TEMPERATURE	GRADE
DRB50202	HLA-DRB5*02:02	DR51	—	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10501/ DQA10101	HLA-DQB1*05:01/ DQA1*01:01	DQ5	8.9%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10502/ DQA10101	HLA-DQB1*05:02/ DQA1*01:01	DQ5	5.3%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10602/ DQA10101	HLA-DQB1*06:02/ DQA1*01:01	DQ6	7.8%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10604/ DQA10101	HLA-DQB1*06:04/ DQA1*01:01	DQ6	2.5%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10609/ DQA10101	HLA-DQB1*06:09/ DQA1*01:01	DQ6	1.5%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10501/ DQA10102	HLA-DQB1*05:01/ DQA1*01:02	DQ5	8.9%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10502/ DQA10102	HLA-DQB1*05:02/ DQA1*01:02	DQ5	5.3%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10503/ DQA10102	HLA-DQB1*05:03/ DQA1*01:02	DQ5	4.1%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10602/ DQA10102	HLA-DQB1*06:02/ DQA1*01:02	DQ6	7.8%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10603/ DQA10102	HLA-DQB1*06:03/ DQA1*01:02	DQ6	3.9%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10604/ DQA10102	HLA-DQB1*06:04/ DQA1*01:02	DQ6	2.5%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10602/ DQA10103	HLA-DQB1*06:02/ DQA1*01:03	DQ6	7.8%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10603/ DQA10103	HLA-DQB1*06:03/ DQA1*01:03	DQ6	3.9%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10604/ DQA10104	HLA-DQB1*06:04/ DQA1*01:04	DQ6	2.5%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10609/ DQA10104	HLA-DQB1*06:09/ DQA1*01:04	DQ6	1.5%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10201/ DQA10201	HLA-DQB1*02:01/ DQA1*02:01	DQ2	11.4%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10202/ DQA10201	HLA-DQB1*02:02/ DQA1*02:01	DQ2	7.5%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10301/ DQA10201	HLA-DQB1*03:01/ DQA1*02:01	DQ7	22.3%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]

SKU	NAME	SERO-LOGICAL NAME	ALLELE FREQUENCY %	HLA SPECIES	HOST CELL LINE SPECIES	PEPTIDE SOURCE	CONFIGURATION	STORAGE TEMPERATURE	GRADE
DQB10302/ DQA10201	HLA-DQB1*03:02/ DQA1*02:01	DQ8	15.9%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10303/ DQA10201	HLA-DQB1*03:03/ DQA1*02:01	DQ9	5.2%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10304/ DQA10201	HLA-DQB1*03:04/ DQA1*02:01	DQ7	0.4%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10305/ DQA10201	HLA-DQB1*03:05/ DQA1*02:01	DQ8	0.6%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10401/ DQA10201	HLA-DQB1*04:01/ DQA1*02:01	DQ4	2.6%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10402/ DQA10201	HLA-DQB1*04:02/ DQA1*02:01	DQ4	7.1%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10601/ DQA10201	HLA-DQB1*06:01/ DQA1*02:01	DQ6	5.6%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10201/ DQA10301	HLA-DQB1*02:01/ DQA1*03:01	DQ2	11.4%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10302/ DQA10301	HLA-DQB1*03:02/ DQA1*03:01	DQ8	15.9%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10303/ DQA10301	HLA-DQB1*03:03/ DQA1*03:01	DQ9	5.2%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10303/ DQA10302	HLA-DQB1*03:03/ DQA1*03:02	DQ9	5.2%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10303/ DQA10303	HLA-DQB1*03:03/ DQA1*03:03	DQ9	5.2%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10302/ DQA10401	HLA-DQB1*03:02/ DQA1*04:01	DQ8	15.9%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10402/ DQA10401	HLA-DQB1*04:02/ DQA1*04:01	DQ4	7.1%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10301/ DQA10501	HLA-DQB1*03:01/ DQA1*05:01	DQ7	22.3%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10303/ DQA10501	HLA-DQB1*03:03/ DQA1*05:01	DQ9	5.2%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10301/ DQA10503	HLA-DQB1*03:01/ DQA1*05:03	DQ7	22.3%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10301/ DQA10505	HLA-DQB1*03:01/ DQA1*05:05	DQ7	22.3%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DQB10301/ DQA10601	HLA-DQB1*03:01/ DQA1*06:01	DQ7	22.3%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]

SKU	NAME	SERO-LOGICAL NAME	ALLELE FREQUENCY %	HLA SPECIES	HOST CELL LINE SPECIES	PEPTIDE SOURCE	CONFIGURATION	STORAGE TEMPERATURE	GRADE
DQB10302/ DQA10601	HLA-DQB1*03:02/ DQA1*06:01	DQ8	15.9%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DPB10401/ DPA10103	HLA-DPB1*04:01/ DPA1*01:03	—	19.1%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DPB10402/ DPA10103	HLA-DPB1*04:02/ DPA1*01:03	—	21.1%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DPB11301/ DPA10103	HLA-DPB1*13:01/ DPA1*01:03	—	5.2%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DPB11401/ DPA10103	HLA-DPB1*14:01/ DPA1*01:03	—	6.2%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DPB12001/ DPA10103	HLA-DPB1*20:01/ DPA1*01:03	—	0.6%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DPB10301/ DPA10104	HLA-DPB1*03:01/ DPA1*01:04	—	6.2%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DPB11801/ DPA10104	HLA-DPB1*18:01/ DPA1*01:04	—	2%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DPB11801/ DPA10105	HLA-DPB1*18:01/ DPA1*01:05	—	2%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DPB10101/ DPA10201	HLA-DPB1*01:01/ DPA1*02:01	—	6%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DPB10401/ DPA10201	HLA-DPB1*04:01/ DPA1*02:01	—	19.1%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DPB11301/ DPA10201	HLA-DPB1*13:01/ DPA1*02:01	—	5.2%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DPB11801/ DPA10201	HLA-DPB1*18:01/ DPA1*02:01	—	2%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DPB10101/ DPA10202	HLA-DPB1*01:01/ DPA1*02:02	—	6%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DPB10501/ DPA10202	HLA-DPB1*05:01/ DPA1*02:02	—	21.3%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DPB10401/ DPA10401	HLA-DPB1*04:01/ DPA1*04:01	—	19.1%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]
DPB11301/ DPA10401	HLA-DPB1*13:01/ DPA1*04:01	—	5.2%	Human	Mouse	Endogenous	Monomer	4°C	Research Use Only [RUO]



Contact

FOR GENERAL INQUIRIES
info@hlaprotein.com

FOR TECHNICAL SUPPORT
support@hlaprotein.com

FOR ORDERING SUPPORT
orders@hlaprotein.com

FOR COMMERCIAL LICENSING
licensing@hlaprotein.com

FOR HLA PROTEIN MAIN LINE
(405) 271-3838

HEADQUARTERS AND RESEARCH FACILITIES

655 Research Parkway, Suite 556 Oklahoma City, OK 73104