📥 🖁 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-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-C

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

SHLA CLASS I PROTEIN CHARACTERISTICS

Pure Protein, L.L.C. offers a wide selection of functionally intact, single-specificity HLA proteins with broad population coverage.

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 compliable on many application platforms as well as adaptable for individual needs.

Since sHLA molecules lack the transmembrane portion, these proteins are not retained on the cell surface but are readily secreted allowing for efficient production and purification and thereby eliminating the inherent problems of detergent cell lysates.

Contact Us

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HLA Class I Proteins

Immunodetection made easy, from identifying HLA-antibody interactions to staining and isolating immune cell populations



Soluble HLA (sHLA) molecules are recombinant, endogenously loaded, and naturally folded glycoproteins. Using proprietary technology, Pure Protein truncates these proteins that are normally attached to the surface of the cell membrane, just before the trans-membrane and cytoplasmic domain, allowing them to be secreted and easily purified without associated cell membranes.

Structurally, sHLA Class I proteins consist of a heavy chain (comprised of $\alpha 1$, $\alpha 2$, and $\alpha 3$ domains), a light chain ($\alpha 2m$) and the peptide they present forming a trimeric complex. Various sHLA alleles have an added purification tag (VLDL) at the carboxy end of the $\alpha 3$ domain.



📥 🗛 Available HLA Proteins

	HL	A-A		HLA-B								HLA–C			
A*01:01	A*23:01	A*30:01	A*43:01	B*07:02	B*15:01	B*18:01	B*37:01	B*44:02	B*52:01	B*58:01	C*01:02	C*04:01	C*07:01	C*12:02	
A*02:01	A*23:02	A*30:02	A*66:01	B*07:03	B*15:02	B*27:01	B*38:01	B*44:03	B*53:01	B*58:02	C*02:02	C*04:03	C*07:02	C*12:03	
A*02:02	A*24:02	A*31:01	A*66:02	B*08:01	B*15:03	B*27:02	B*39:01	B*45:01	B*54:01	B*59:01	C*03:02	C*05:01	C*07:04	C*14:02	
A*02:03	A*24:03	A*32:01	A*68:01	B*13:01	B*15:08	B*27:03	B*39:05	B*46:01	B*55:01	B*67:01	C*03:03	C*06:02	C*08:01	C*15:02	
A*02:05	A*24:07	A*32:04	A*68:02	B*13:02	B*15:10	B*27:05	B*40:01	B*47:01	B*56:01	B*73:01	C*03:04		C*08:02	C*15:03	
A*02:06	A*25:01	A*33:01	A*69:01	B*14:01	B*15:11	B*27:08	B*40:02	B*48:01	B*56:02	B*78:01				C*16:01	
A*02:07	A*26:01	A*33:03	A*74:01	B*14:02	B*15:12	B*35:01	B*40:06	B*49:01	B*56:04	B*81:01				C*17:01	
A*03:01	A*29:01	A*34:01	A*80:01	B*14:05	B*15:13	B*35:05	B*41:01	B*50:01	B*57:01	B*82:01				C*18:01	
A*11:01	A*29:02	A*34:02		B*14:06	B*15:16	B*35:08	B*42:01	B*51:01	B*57:02						
A*11:02		A*36:01			B*15:18		B*42:02	B*51:02	B*57:03						
					B*15:23										

Technology



Advantages

- Recombinant
- Truncated
- Single specificity
- Produced in human cell lines
- Large quantities available
- Naturally assembled in vivo
- No refolding procedures required
- No lysate preparations necessary
- Natural endogenous peptide load
- Naturally glycosylated
- Highly purified
- Quality controlled
- No protease inhibitors necessary
- High stability

HLA-A bio

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

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HLA Protein PURE PROTEIN LLC

HLA ^{bio} Class I Proteins

Probe complex solutions, cells, and tissues, as well as protein arrays with a broad range of sHLA proteins that are readily labeled with biotin.



Soluble HLA (sHLA) molecules are recombinant, endogenously loaded, and naturally folded glycoproteins. Using proprietary technology, Pure Protein truncates these proteins that are normally attached to the surface of the cell membrane, just before the trans-membrane and cytoplasmic domain, allowing them to be secreted and easily purified without associated cell membranes.

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Pure Protein offers chemically modified sHLA proteins that are randomly conjugated with a biotin moiety. These biotinylated sHLA allow for efficient binding to streptavidin without steric hindrance or inactivated antigenic sites fully preserving biological activity. Their high stability and binding capacity allow their usage in many applications involving the streptavidin-biotin system.

Streptavidin-based amplification techniques are widely used in flow cytometry, fluorescent imaging, bead-based or microplate-based detection for increased signal output and greater sensitivity.



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					B*15:23									

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📥 🕆 HLA-DR

Select from more than 40 HLA-DR alleles to detect and monitor humoral or cellular antigen-specific immune responses

📥 🕆 HLA-DQ

Choose from a pool of over 60 HLA-DQ alleles to research the variety of hetero-dimeric isoforms

📥 🕆 HLA-DP

Explore a selection of over 50 HLA-DP alleles, the emerging marker for histocompatibility screening

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HLA Class II Proteins

Resources for your Immunological Research, from detecting HLAantibody interactions to analysis of immune cells



Soluble HLA (sHLA) molecules are recombinant, endogenously loaded and naturally folded glycoproteins. Using proprietary technology, Pure Protein truncates the two protein subunits just before the trans-membrane and cytoplasmic domain and stabilizes them by inserting a leucine zipper (ZP) that allows easy secretion and purification without associated cell membrane portions.

Structurally, soluble HLA class II proteins are heterodimeric glycoproteins consisting of an alpha chain (comprised of $\alpha 1$, $\alpha 2$ domains), a beta chain (comprised of $\alpha 1$, $\alpha 2$ domains) and an endogenously loaded peptide they present forming a trimeric complex.



📥 🗛 Available HLA Proteins



Technology



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HLA Protein PURE PROTEIN LLC

HLA ^{bio} Class II Proteins

Biotin labels provide the "tag" that transforms soluble HLA molecules into probes that can be recognized by a labeled detection reagent or an affinity-capture matrix.



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