

Goat Anti-HLA-B Antibody (internal region)
Purified Goat Polyclonal Antibody
Catalog # AF4267a**Specification**

Goat Anti-HLA-B Antibody (internal region) - Product Information

Application	WB, E
Primary Accession	P01889
Other Accession	NP_005505.2
Reactivity	Human
Predicted	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5
Calculated MW	40460

Goat Anti-HLA-B Antibody (internal region) - Additional Information**Gene ID** 3106**Other Names**

HLA-B; major histocompatibility complex, class I, B; AS; HLAB; SPDA1; HLA class I histocompatibility antigen, B alpha chain; MHC Class I HLA heavy chain; MHC HLA-B cell surface glycoprotein; MHC HLA-B transmembrane glycoprotein; MHC class I antigen GN0010

Dilution

WB~~1:1000

E~~N/A

Format

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.

Immunogen

Peptide with sequence C-DRNTQIYKAQAQT , from the internal region of the protein sequence according to NP_005505.2.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-HLA-B Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-HLA-B Antibody (internal region) - Protein Information

Name HLA-B ([HGNC:4932](#))

Synonyms HLAB

Function

Antigen-presenting major histocompatibility complex class I (MHC I) molecule. In complex with B2M/beta 2 microglobulin displays primarily viral and tumor-derived peptides on antigen-presenting cells for recognition by alpha-beta T cell receptor (TCR) on HLA-B-restricted CD8-positive T cells, guiding antigen-specific T cell immune response to eliminate infected or transformed cells (PubMed:[23209413](http://www.uniprot.org/citations/23209413), PubMed:[25808313](http://www.uniprot.org/citations/25808313), PubMed:[29531227](http://www.uniprot.org/citations/29531227), PubMed:[9620674](http://www.uniprot.org/citations/9620674)). May also present self-peptides derived from the signal sequence of secreted or membrane proteins, although T cells specific for these peptides are usually inactivated to prevent autoreactivity (PubMed:[18991276](http://www.uniprot.org/citations/18991276), PubMed:[7743181](http://www.uniprot.org/citations/7743181)). Both the peptide and the MHC molecule are recognized by TCR, the peptide is responsible for the fine specificity of antigen recognition and MHC residues account for the MHC restriction of T cells (PubMed:[24600035](http://www.uniprot.org/citations/24600035), PubMed:[29531227](http://www.uniprot.org/citations/29531227), PubMed:[9620674](http://www.uniprot.org/citations/9620674)). Typically presents intracellular peptide antigens of 8 to 13 amino acids that arise from cytosolic proteolysis via constitutive proteasome and IFNG-induced immunoproteasome (PubMed:[23209413](http://www.uniprot.org/citations/23209413)). Can bind different peptides containing allele-specific binding motifs, which are mainly defined by anchor residues at position 2 and 9 (PubMed:[25808313](http://www.uniprot.org/citations/25808313), PubMed:[29531227](http://www.uniprot.org/citations/29531227)).

Cellular Location

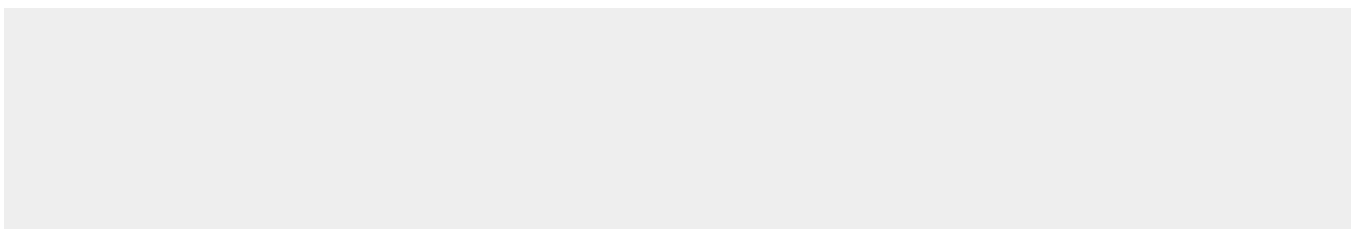
Cell membrane; Single-pass type I membrane protein. Endoplasmic reticulum membrane; Single-pass type I membrane protein

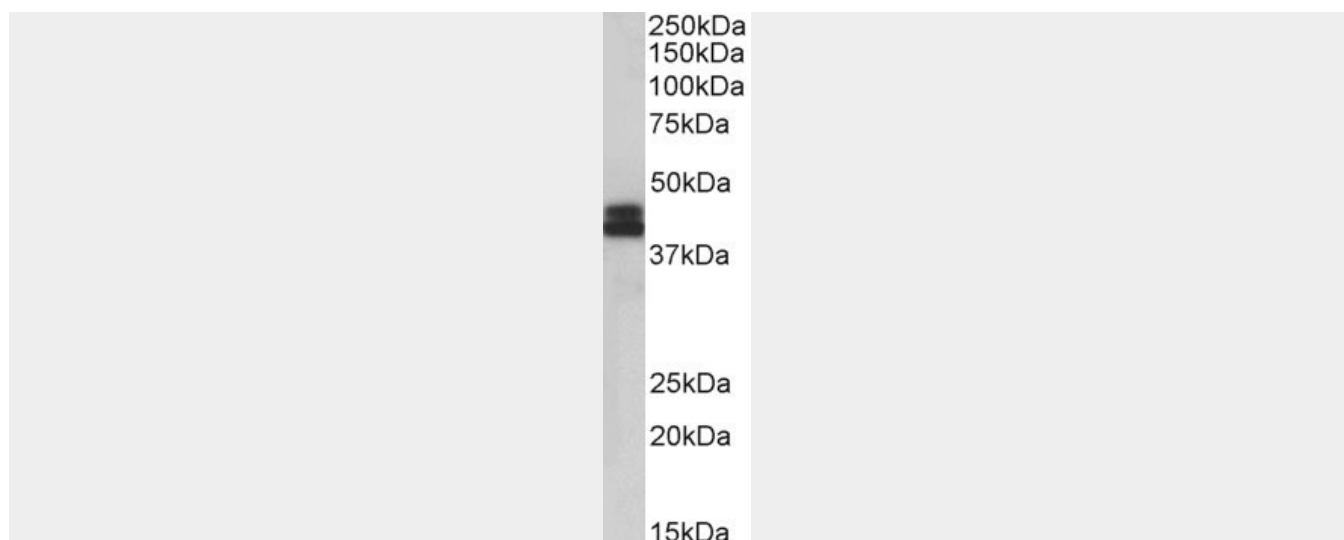
Goat Anti-HLA-B Antibody (internal region) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-HLA-B Antibody (internal region) - Images





AF4267a (0.1 µg/ml) staining of Jurkat lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-HLA-B Antibody (internal region) - References

Biosynthesis of HLA-A and HLA-B antigens in vivo. Owen MJ, Kissonerghis AM, Lodish HF. The Journal of biological chemistry 1980 Oct 255 (20): 9678-84.