

Anti-HLA-DRA Antibody
Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18325**Specification**

Anti-HLA-DRA Antibody - Product Information

Application	WB, IHC-P
Primary Accession	P01903
Predicted	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	28621
Dilution	WB~~1:1000 IHC-P~~N/A

Anti-HLA-DRA Antibody - Additional Information**Gene ID** 3122**Alias Symbol** HLA-DRA**Other Names**

HLA-DRA, HLA-DRA1, MHC cell surface glycoprotein, MHC class II antigen DRA, MLRW

Reconstitution & Storage

Affinity purified

Precautions

Anti-HLA-DRA Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-HLA-DRA Antibody - Protein Information**Name** HLA-DRA**Synonyms** HLA-DRA1**Function**

An alpha chain of antigen-presenting major histocompatibility complex class II (MHCII) molecule. In complex with the beta chain HLA- DRB, displays antigenic peptides on professional antigen presenting cells (APCs) for recognition by alpha-beta T cell receptor (TCR) on HLA-DR-restricted CD4-positive T cells. This guides antigen-specific T- helper effector functions, both antibody-mediated immune response and macrophage activation, to ultimately eliminate the infectious agents and transformed cells (PubMed:15265931, PubMed:15322540, PubMed:17334368, PubMed:22327072, PubMed:22327072).

[24190431](http://www.uniprot.org/citations/24190431), PubMed:<[27591323](http://www.uniprot.org/citations/27591323)>, PubMed:<[29884618](http://www.uniprot.org/citations/29884618)>, PubMed:<[31495665](http://www.uniprot.org/citations/31495665)>, PubMed:<[8145819](http://www.uniprot.org/citations/8145819)>, PubMed:<[9075930](http://www.uniprot.org/citations/9075930)>). Typically presents extracellular peptide antigens of 10 to 30 amino acids that arise from proteolysis of endocytosed antigens in lysosomes (PubMed:<[8145819](http://www.uniprot.org/citations/8145819)>). In the tumor microenvironment, presents antigenic peptides that are primarily generated in tumor-resident APCs likely via phagocytosis of apoptotic tumor cells or macropinocytosis of secreted tumor proteins (PubMed:<[31495665](http://www.uniprot.org/citations/31495665)>). Presents peptides derived from intracellular proteins that are trapped in autolysosomes after macroautophagy, a mechanism especially relevant for T cell selection in the thymus and central immune tolerance (PubMed:<[17182262](http://www.uniprot.org/citations/17182262)>, PubMed:<[23783831](http://www.uniprot.org/citations/23783831)>). The selection of the immunodominant epitopes follows two processing modes: 'bind first, cut/trim later' for pathogen-derived antigenic peptides and 'cut first, bind later' for autoantigens/self- peptides (PubMed:<[25413013](http://www.uniprot.org/citations/25413013)>). The anchor residue at position 1 of the peptide N-terminus, usually a large hydrophobic residue, is essential for high affinity interaction with MHCII molecules (PubMed:<[8145819](http://www.uniprot.org/citations/8145819)>).

Cellular Location

Cell membrane; Single-pass type I membrane protein. Endoplasmic reticulum membrane; Single-pass type I membrane protein. Early endosome membrane; Single-pass type I membrane protein. Late endosome membrane; Single-pass type I membrane protein. Lysosome membrane; Single-pass type I membrane protein. Autolysosome membrane; Single-pass type I membrane protein. Note=The MHCII complex transits through a number of intracellular compartments in the endocytic pathway until it reaches the cell membrane for antigen presentation (PubMed:18305173, PubMed:9075930). Component of immunological synapses at the interface between T cell and APC (PubMed:15322540, PubMed:29884618).

Tissue Location

Expressed in professional APCs: macrophages, dendritic cells and B cells (at protein level) (PubMed:15322540, PubMed:23783831, PubMed:31495665). Expressed in thymic epithelial cells (at protein level) (PubMed:23783831).

Anti-HLA-DRA Antibody - 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](#)

Anti-HLA-DRA Antibody - Images