

HLA-DPA1 rabbit monoclonal antibody

Catalog # H00003113-K Size 100 ug x up to 3

Specification

Product Description	Rabbit monoclonal antibody raised against a human HLA-DPA1 peptide using ARM Technology.
Immunogen	A synthetic peptide of human HLA-DPA1 is used for rabbit immunization. Customer or Abnova will decide on the preferred peptide sequence.
Host	Rabbit
Library Construction	Non-fusion antibody library from rabbit spleen (ARM Technology).
Expression	Overexpression vector and transfection into 293H cell line.
Reactivity	Human
Purification	Protein A
Isotype	IgG
Quality Control Testing	Antibody reactive against human HLA-DPA1 peptide by ELISA and mammalian transfected lysate by Western Blot.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Deliverable	Up to three rabbit IgG clones of 100 ug each will be delivered to customer.
Note	1. Customer may provide cell or tissue lysate for antibody screening. 2. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering including F(ab) ₂ , IgG, scFv and different Fc and non-Fc conjugates per customer request.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- ELISA

Gene Info — HLA-DPA1

Entrez GeneID	3113
GeneBank Accession#	HLA-DPA1
Gene Name	HLA-DPA1
Gene Alias	HLA-DP1A, HLADP, HLASB
Gene Description	major histocompatibility complex, class II, DP alpha 1
Omim ID	142880
Gene Ontology	Hyperlink
Gene Summary	HLA-DPA1 belongs to the HLA class II alpha chain paralogues. This class II molecule is a heterodimer consisting of an alpha (DPA) and a beta (DPB) chain, both anchored in the membrane. It plays a central role in the immune system by presenting peptides derived from extracellular proteins. Class II molecules are expressed in antigen presenting cells (APC: B lymphocytes, dendritic cells, macrophages). The alpha chain is approximately 33-35 kDa and its gene contains 5 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, exon 4 encodes the transmembrane domain and the cytoplasmic tail. Within the DP molecule both the alpha chain and the beta chain contain the polymorphisms specifying the peptide binding specificities, resulting in up to 4 different molecules. [provided by RefSeq]
Other Designations	HLA class II histocompatibility antigen, DP alpha chain MHC class II HLA-DPA1 antigen MHC class II antigen OTTHUMP00000029066 OTTHUMP00000062983

Pathway

- [Allograft rejection](#)
- [Antigen processing and presentation](#)
- [Asthma](#)
- [Autoimmune thyroid disease](#)
- [Cell adhesion molecules \(CAMs\)](#)
- [Graft-versus-host disease](#)
- [Systemic lupus erythematosus](#)

- [Type I diabetes mellitus](#)

Disease

- [Alveolitis](#)
- [Berylliosis](#)
- [Cardiomyopathy](#)
- [Cardiovascular Diseases](#)
- [Cholestasis](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Encephalomyelitis](#)
- [Genetic Predisposition to Disease](#)
- [Graft vs Host Disease](#)
- [Hematologic Neoplasms](#)
- [Hepatitis B](#)
- [HIV Infections](#)
- [HIV Seropositivity](#)
- [Inflammatory Bowel Diseases](#)
- [Leishmaniasis](#)
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