

HLA-DRB5 rabbit monoclonal antibody

Catalog # H00003127-K

Size 100 ug x up to 3

Specification

Product Description	Rabbit monoclonal antibody raised against a human HLA-DRB5 peptide using ARM Technology.
Immunogen	A synthetic peptide of human HLA-DRB5 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-DRB5 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-DRB5

Entrez GeneID	3127
GeneBank Accession#	HLA-DRB5
Gene Name	HLA-DRB5
Gene Alias	-
Gene Description	major histocompatibility complex, class II, DR beta 5
Omim ID	604776
Gene Ontology	Hyperlink
Gene Summary	HLA-DRB5 belongs to the HLA class II beta chain paralogues. This class II molecule is a heterodimer consisting of an alpha (DRA) and a beta (DRB) 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 beta chain is approximately 26-28 kDa and its gene contains 6 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, exon 4 encodes the transmembrane domain and exon 5 encodes the cytoplasmic tail. Within the DR molecule the beta chain contains all the polymorphisms specifying the peptide binding specificities. Typing for these polymorphisms is routinely done for bone marrow and kidney transplantation. DRB1 is expressed at a level five times higher than its paralogues DRB3, DRB4 and DRB5. The presence of DRB5 is linked with allelic variants of DRB1, otherwise it is omitted. There are 4 related pseudogenes: DRB2, DRB6, DRB7, DRB8 and DRB9. [provided by RefSeq]
Other Designations	HLA class II histocompatibility antigen, DR-5 beta chain MHC HLA-DR-beta cell surface glycoprotein MHC HLA-DR-beta chain MHC class II HLA beta chain MHC class II antigen OTTHUMP0000029035 human leucocyte antigen DRB5 leukocyte antigen class II

Pathway

- [Allograft rejection](#)
- [Antigen processing and presentation](#)
- [Asthma](#)
- [Autoimmune thyroid disease](#)
- [Cell adhesion molecules \(CAMs\)](#)

- [Graft-versus-host disease](#)
- [Hematopoietic cell lineage](#)
- [Systemic lupus erythematosus](#)
- [Type I diabetes mellitus](#)

Disease

- [Abortion](#)
- [Abruptio Placentae](#)
- [Alveolar Bone Loss](#)
- [Aortic Aneurysm](#)
- [Arthritis](#)
- [Bronchiolitis](#)
- [Celiac Disease](#)
- [Chronic Disease](#)
- [Dementia](#)
- [Diabetes](#)
- [Diabetes Mellitus](#)
- [Disease Susceptibility](#)
- [Echinococcosis](#)
- [Encephalomyelitis](#)
- [Genetic Predisposition to Disease](#)
- [Gingival Hemorrhage](#)
- [Graft vs Host Disease](#)
- [Hallucinations](#)
- [Hepatitis C](#)
- [HIV Infections](#)

- [Jaundice](#)
- [Latex Hypersensitivity](#)
- [Leukemia](#)
- [Lewy Body Disease](#)
- [Liver Cirrhosis](#)
- [Liver Diseases](#)
- [Lupus Erythematosus](#)
- [Malaria](#)
- [Multiple Sclerosis](#)
- [Occupational Diseases](#)
- [Periodontal Attachment Loss](#)
- [Periodontitis](#)
- [Pityriasis Rosea](#)
- [Rheumatic Heart Disease](#)
- [Sarcoidosis](#)
- [Sarcoma](#)
- [Schistosomiasis japonica](#)
- [Scleroderma](#)
- [Spinal Dysraphism](#)
- [Tuberculosis](#)