

HLA-DPB1 rabbit monoclonal antibody

Catalog # H00003115-K Size 100 ug x up to 3

Specification

Product Description	Rabbit monoclonal antibody raised against a human HLA-DPB1 peptide using ARM Technology.
Immunogen	A synthetic peptide of human HLA-DPB1 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-DPB1 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-DPB1

Entrez GeneID	3115
GeneBank Accession#	HLA-DPB1
Gene Name	HLA-DPB1
Gene Alias	DPB1, HLA-DP1B
Gene Description	major histocompatibility complex, class II, DP beta 1
Omim ID	142858
Gene Ontology	Hyperlink
Gene Summary	HLA-DPB belongs to the HLA class II beta chain paralogues. This class II molecule is a heterodimer consisting of an alpha (DPA) and a beta chain (DPB), 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 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 DP14-beta chain HLA-DP histocompatibility type, beta-1 subunit MHC HLA DPB1 MHC class II HLA-DP-beta MHC class II HLA-DP-beta-1 MHC class II HLA-DRB1 MHC class II antigen DP beta 1 chain MHC class II antigen DPbeta1 MHC class II antigen beta chain OTT

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

- [Acute Disease](#)
- [Antiphospholipid Syndrome](#)
- [Arthritis](#)
- [Asthma](#)
- [Autoimmune Diseases](#)
- [Berylliosis](#)
- [Biliary Atresia](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Calcinosis](#)
- [Carcinoma](#)
- [Cardiomyopathy](#)
- [Cardiovascular Diseases](#)
- [Chronic Disease](#)
- [Coronary Aneurysm](#)
- [Cytomegalovirus Infections](#)
- [Dengue](#)
- [Diabetes Mellitus](#)
- [Disease Susceptibility](#)
- [Edema](#)
- [Endometriosis](#)
- [Epstein-Barr Virus Infections](#)
- [Exanthema](#)

- [Genetic Predisposition to Disease](#)
- [Glomerulonephritis](#)
- [Graft vs Host Disease](#)
- [Graves Disease](#)
- [Hematologic Neoplasms](#)
- [Hemophilia A](#)
- [Hemophilia B](#)
- [Hepatitis B](#)
- [Hepatitis C](#)
- [HIV Infections](#)
- [Hodgkin Disease](#)
- [Hypersensitivity](#)
- [Hypertension](#)
- [Leishmaniasis](#)
- [Leukemia](#)
- [Lipodystrophy](#)
- [Liver Cirrhosis](#)
- [Liver Neoplasms](#)
- [Lupus Erythematosus](#)
- [Lupus Nephritis](#)
- [Malaria](#)
- [Mucocutaneous Lymph Node Syndrome](#)
- [Multiple Myeloma](#)
- [Multiple Sclerosis](#)
- [Myelitis](#)
- [Nasopharyngeal Neoplasms](#)

- [Neuromyelitis Optica](#)
- [Obesity](#)
- [Occupational Diseases](#)
- [Optic Neuritis](#)
- [Pancreatitis](#)
- [Papillomavirus Infections](#)
- [Periodontitis](#)
- [Precursor B-Cell Lymphoblastic Leukemia-Lymphoma](#)
- [Pulmonary Embolism](#)
- [Pulmonary Fibrosis](#)
- [Recurrence](#)
- [Respiratory Hypersensitivity](#)
- [Sarcoidosis](#)
- [Scleroderma](#)
- [Silicosis](#)
- [Spondylitis](#)
- [Thromboangiitis Obliterans](#)
- [Thromboembolism](#)
- [Tuberculosis](#)
- [Tumor Virus Infections](#)
- [Urticaria](#)
- [Uterine Cervical Neoplasms](#)
- [Uveitis](#)
- [Venous Thrombosis](#)
- [Wegener Granulomatosis](#)