

Mouse anti-Human HLA-DP/-DR Monoclonal Antibody | anti-HLA-DPB1 antibody

HLA-DP/-DR (MHC II) Mouse Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62778	Mouse	Human	Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

HLA-DP/-DR; Monoclonal Antibody; HLA-DP/-DR (MHC II) Mouse Monoclonal Antibody; HLA-DP: HLA class II histocompatibility antigen DP alpha 1 chain; HLA DP1A; HLA SB alpha chain; HLADP; HLADPA1; HLASB; HLASB histocompatibility type; Human MHC class II HLA SB alpha; Major histocompatibility complex class II DP alpha 1; MHC class II DP3 alpha; MHC class II DPA1; PLT1; Primed lymphocyte test 1 HLA-DR: DR alpha chain; HLA class II histocompatibility antigen; HLA class II histocompatibility antigen DR alpha chain; HLA DRA; HLA DRA1; HLA-DRA; HLADRA1; Major histocompatibility complex class II DR alpha; MHC cell surface glycoprotein; MHC class II antigen DRA; anti-HLA-DPB1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG3, kappa
Clone Number	Bra-14
Specificity	Reacts with a common epitope of human major histocompatibility (MHC) class II antigens, HLA-DR and DP. Human MHC class II antigens are transmembrane glycoproteins composed of an chain (36kDa) and a chain (27kDa). They are expressed primarily on antigen presenting cells such as B lymphocytes, monocytes, macrophages, and thymic epithelial cells and are also present on activated T lymphocytes. Human MHC class II genes are located in the HLA-D region that encodes at least six and ten chain genes. Three loci, DR, DQ and DP, encode the major expressed products of the human class II region. The human MHC class II molecules bind intracellularly processed peptides and present them to T-helper cells. They, therefore, have a critical role in the initiation of the immune response. It has been shown that some autoimmune diseases are associated with certain class II alleles.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	258
Applicable Applications for anti-HLA-DPB1 antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Human Chromosome Location	6p21.3 (HLA-DP & HLA-DR)
Immunogen	Human REH cells
Cellular Localization	Cell Surface
Positive Control	Raji cells. Tonsil or lymph node.
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



SDS-PAGE
SDS-PAGE Analysis Purified HLA-DP/DR Mouse Monoclonal Antibody (Bra-14).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Tonsil stained with HLA-DP/DR Mouse Monoclonal Antibody (Bra-14).

ADDITIONAL INFORMATION

References	Chorvath B et al. Supplementary characteristics of anti-MHC class II monoclonal antibodies elicited by an ALL cell line: immunofluorescence cytofluorometry, C-dependent cytotoxicity, two-dimensional analysis of antigen. Neoplasma 1987, 34(4):417-425 Horejsi V et al. Characterization of a new murine monoclonal antibody against human DP antigens. Tissue Antigens 1988, 32(1):6-11 Polakova K et al. Monoclonal antibodies against MHC class II antigens elicited with a human non-T, non-B acute lymphoblastic leukemia cell line. Neoplasma 1985;32(6):641-
------------	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	24797076
NCBI GeneID	3115
NCBI Accession #	NP_002112.3
NCBI GenBank Nucleotide #	NM_002121.5
UniProt Accession #	P04440; A0PFJ7; A5I886; A8YPB3; B5U8B4; B7VF80; B7VF87; B8ZX68; B8ZYT0; B9W5S8; B9W6F7; B9W6F9
Molecular Weight	36kDa (alpha chain); 27kDa (beta chain)
NCBI Official Full Name	HLA class II histocompatibility antigen, DP beta 1 chain
NCBI Official Synonym Full Names	major histocompatibility complex, class II, DP beta 1
NCBI Official Symbol	HLA-DPB1
NCBI Official Synonym Symbols	DPB1; HLA-DP; HLA-DPB; HLA-DP1B
NCBI Protein Information	HLA class II histocompatibility antigen, DP beta 1 chain
UniProt Protein Name	HLA class II histocompatibility antigen, DP beta 1 chain
UniProt Gene Name	HLA-DPB1
UniProt Synonym Gene Names	HLA-DP1B
UniProt Entry Name	DPB1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.