



HLA-DP α 1 Monoclonal Antibody

Catalog No	YP-mAb-13931
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	HLA-DPA1
Immunogen	Synthesized peptide derived from the Internal region of human HLA-DP α 1.
Specificity	HLA-DP α 1 Monoclonal Antibody detects endogenous levels of HLA-DP α 1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	$\geq 90\%$
Storage Stability	-20°C/1 year
Synonyms	HLA-DP α 1;HLA-DPA1;HLA class II histocompatibility antigen DP alpha 1 chain; HLA-DP1A;HLASB;HLA class II histocompatibility antigen;DP alpha 1 chain; DP(W3);DP(W4);HLA-SB alpha chain;MHC class II DP3-alpha;MHC class II DPA1
Observed Band	29kD
Calculated Molecular Weight	29kD
Cell Pathway	Cell membrane; Single-pass type I membrane protein. Endoplasmic reticulum membrane; Single-pass type I membrane protein. Golgi apparatus, trans-Golgi network membrane; Single-pass type I membrane protein. Endosome membrane; Single-pass type I membrane protein. Lysosome membrane; Single-pass type I membrane protein. The MHC class II complex transits through a number of intracellular compartments in the endocytic pathway until it reaches the cell membrane for antigen presentation.
Tissue Specificity	Brain,Primary B-Cells,Thymus,
Function	similarity:Belongs to the MHC class II family.,



Background

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, Jul 2008],

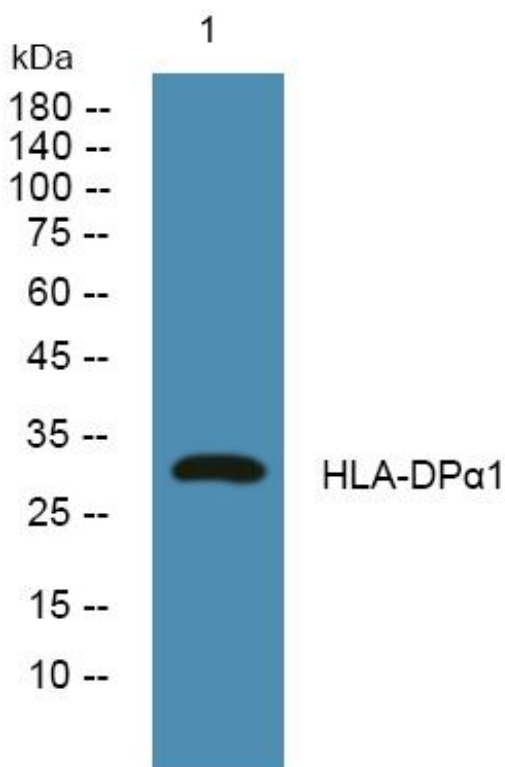
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using HLA-DPA1 Monoclonal Antibody