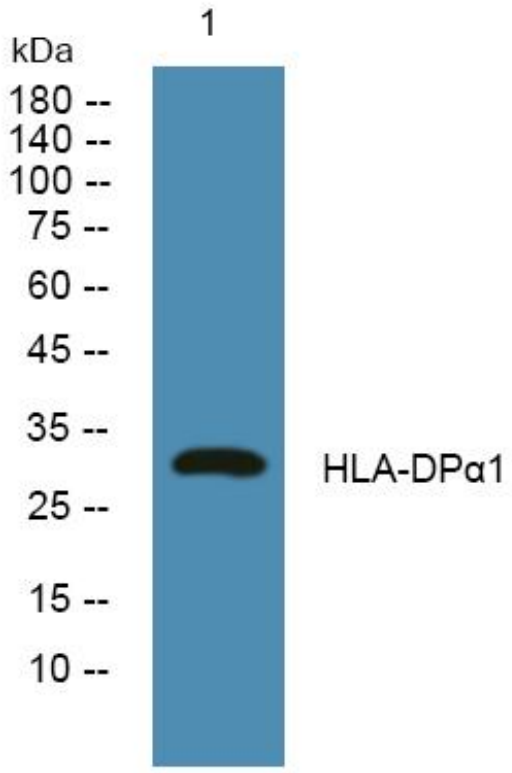
HLA-DPα1 Monoclonal Antibody

Catalog No	BYmab-13931
Isotype	IgG
Reactivity	Human
Applications	WB
Gene Name	HLA-DPA1
Protein Name	HLA class II histocompatibility antigen DP alpha 1 chain
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 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	HLA-DPA1; 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
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-DP α 1 Monoclonal Antibody