

For Research Use Only

HLA-DMB Polyclonal antibody

Catalog Number: 21704-1-AP **1 Publications**



Basic Information

Catalog Number: 21704-1-AP	GenBank Accession Number: BC027175	Purification Method: Antigen affinity purification
Size: 800 µg/ml	GeneID (NCBI): 3109	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: P28068	
Isotype: IgG	Full Name: major histocompatibility complex, class II, DM beta	
Immunogen Catalog Number: AG16320	Calculated MW: 263 aa, 29 kDa	
	Observed MW: 30 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : Daudi cells, Raji cells IHC : human tonsillitis tissue,
Cited Applications: WB	
Species Specificity: human	
Cited Species: human	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Human major histocompatibility complex (MHC) antigens, also referred to as human leukocyte antigens (HLA), are encoded by genes located on the short arm of chromosome 6 (6p21.3). There are two classes of HLA antigens: class I (HLA-A, B and C) and class II (HLA-D). The class II molecules are composed of two non-covalently associated alpha and beta chains. HLA-DMA and HLA-DMB form a functional heterodimer that is critical in the pathway of class II antigen presentation. HLA-DM plays a critical role in catalyzing the release of Class II HLA-associated invariant chain-derived peptides (CLIP) from newly synthesized class II HLA molecules and freeing the peptide binding site for acquisition of antigenic peptides.

Notable Publications

Author	Pubmed ID	Journal	Application
Rupert L Mayer	36241641	Nat Commun	WB

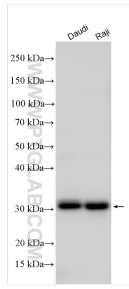
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

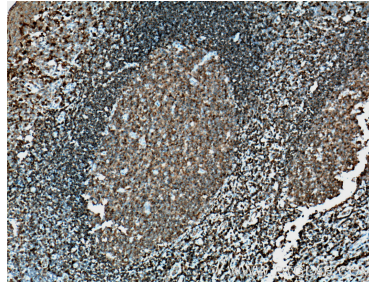
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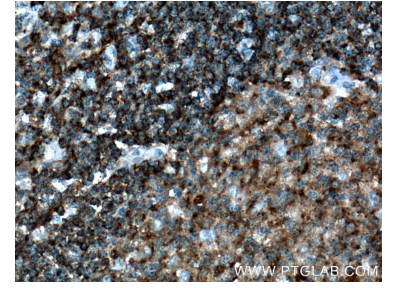
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 21704-1-AP (HLA-DMB antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 21704-1-AP (HLA-DMB Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 21704-1-AP (HLA-DMB Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).