

Anti-HLA DMB Antibody

Catalog # ABO11096

Product Information

Application	WB, IHC-P
Primary Accession	P28068
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for HLA class II histocompatibility antigen, DM beta chain(HLA-DMB) detection. Tested with WB, IHC-P in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	3109
Other Names	HLA class II histocompatibility antigen, DM beta chain, MHC class II antigen DMB, Really interesting new gene 7 protein, HLA-DMB, DMB, RING7
Calculated MW	28931
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Late endosome membrane ; Single-pass type I membrane protein . Lysosome membrane ; Single-pass type I membrane protein . Localizes to late endocytic compartment. Associates with lysosome membranes.
Source	Eukaryota
Protein Name	HLA class II histocompatibility antigen, DM beta chain
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human HLA DMB(81-100aa NQKDTLMQRLRNGLQNCATH).
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also

Sequence Similarities

be aliquotted and stored frozen at -20° C for a longer time.Avoid repeated freezing and thawing.
Belongs to the MHC class II family.

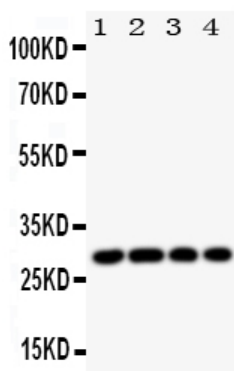
Protein Information

Name	HLA-DMB
Synonyms	DMB, RING7
Function	Plays a critical role in catalyzing the release of class II- associated invariant chain peptide (CLIP) from newly synthesized MHC class II molecules and freeing the peptide binding site for acquisition of antigenic peptides. In B-cells, the interaction between HLA-DM and MHC class II molecules is regulated by HLA-DO.
Cellular Location	Late endosome membrane; Single-pass type I membrane protein. Lysosome membrane; Single-pass type I membrane protein. Note=Localizes to late endocytic compartment. Associates with lysosome membranes

Background

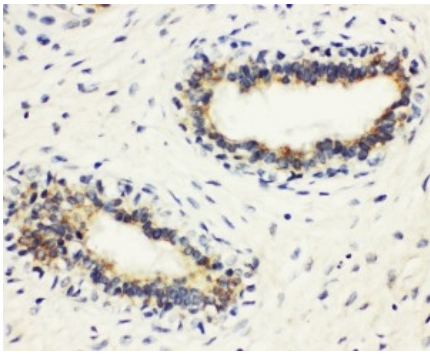
HLA-DMB(major histocompatibility complex, class II, DM beta), also known as D6S221E, RING7, HLA-DM histocompatibility type, beta chain, HLADMB or RING7, is a protein that in humans is encoded by the HLA-DMB gene. The HLA-DMB gene is mapped on 6p21.32. HLA-DMB belongs to the HLA class II beta chain paralogues. This class II molecule is a heterodimer consisting of an alpha(DMA) and a beta(DMB) chain, both anchored in the membrane. It is located in intracellular vesicles. DM plays a central role in the peptide loading of MHC class II molecules by helping to release the CLIP(class II-associated invariant chain peptide) molecule from the peptide binding site. Class II molecules are expressed in antigen presenting cells. The beta chain is approximately 26-28 kDa and its gene contains 6 exons. HLA-DMA and -DMB appear to encode subunits of a functional heterodimer that is critical in the pathway of class II antigen presentation.

Images



Anti-HLA DMB antibody, ABO11096, Western blottingAll lanes: Anti HLA DMB (ABO11096) at 0.5ug/mlLane 1: JURKAT Whole Cell Lysate at 40ugLane 2: JURKAT Whole Cell Lysate at 40ugLane 3: RAJI Whole Cell Lysate at 40ugLane 4: HUT Whole Cell Lysate at 40ugPredicted bind size: 29KDObserved bind size: 29KD

Anti-HLA DMB antibody, ABO11096, IHC(P)IHC(P): Human Mammary Cancer Tissue



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.