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Anti-HLA DMB Antibody
Catalog # ABO11096

Specification

Anti-HLA DMB Antibody - 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.

Anti-HLA DMB Antibody - 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
28943 MW KDa

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.

Protein Name
HLA class II histocompatibility antigen, DM beta chain

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

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 r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities
Belongs to the MHC class II family.

Anti-HLA DMB Antibody - 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

Anti-HLA DMB Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-HLA DMB Antibody - Images

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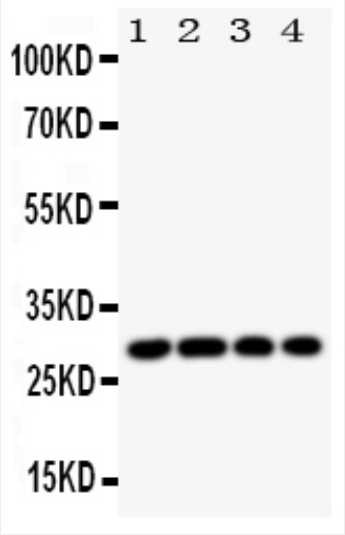
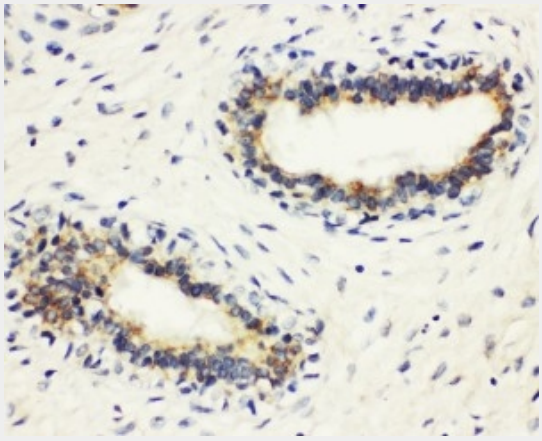


Anti-HLA DMB antibody, ABO11096, Western blottingAll lanes: Anti HLA DMB (ABO11096) at 0.5ug/mlLane 1: JURKAT Whole Cell Lysate at 40ugLane 2: JURKAT Whole Cell Lysate at 40ugLane 3: RAJI Whole Cell Lysate at 40ugLane 4: HUT Whole Cell Lysate at 40ugPredicted bind size: 29KDObserved bind size: 29KD



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

Anti-HLA DMB Antibody - 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.