

HLA-DMB Antibody (Center) Blocking Peptide

Synthetic peptide Catalog # BP18052c

Specification

HLA-DMB Antibody (Center) Blocking Peptide - Product Information

Primary Accession

P28068

HLA-DMB Antibody (Center) Blocking Peptide - 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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

HLA-DMB Antibody (Center) Blocking Peptide - 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

HLA-DMB Antibody (Center) Blocking Peptide - Protocols

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



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• Blocking Peptides

HLA-DMB Antibody (Center) Blocking Peptide - Images

HLA-DMB Antibody (Center) Blocking Peptide - Background

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 islocated in intracellular vesicles. DM plays a central role in thepeptide 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 inantigen presenting cells (APC: B lymphocytes, dendritic cells, macrophages). The beta chain is approximately 26-28 kDa and itsgene contains 6 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, exon 4 encodes thetransmembrane domain and exon 5 encodes the cytoplasmic tail.

HLA-DMB Antibody (Center) Blocking Peptide - References

Rinderknecht, C.H., et al. Immunology 131(1):18-32(2010)Bailey, S.D., et al. Diabetes Care (2010) In press: Davila, S., et al. Genes Immun. 11(3):232-238(2010)Ferrante, A., et al. J. Immunol. 184(3):1153-1158(2010)Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)