HLA-DMB Antibody (Center) Blocking Peptide

PRODUCT OVERVIEW

Product Name	HLA-DMB, Blocking Peptide
Full Product Name	HLA-DMB Antibody (Center) Blocking Peptide
Product Gene Name	HLA-DMB blocking peptide
Product Synonym Gene Name	DMB; RING7
Product Synonym Names	HLA class II histocompatibility antigen; DM beta chain; MHC class II antigen DMB; Really interesting new gene 7 protein; HLA-DMB; DMB; RING7
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	HLA-DMB peptide (MBS9223074) is used for blocking the activity of HLA-DMB antibody (MBS9214293)
Molecular Weight	28,943 Da
OMIM	142856
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
Related Product Information for HLA-DMB blocking peptide	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.
Other Notes	Small volumes of HLA-DMB blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for HLA-DMB purchase	MBS9223074 is a blocking peptide targeting HLA-DMB. Also known as HLA-DMB Antibody (Center) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HLA-DMB. It may not necessarily be applicable to this product.

NCBI GI #	133160
NCBI GeneID	3109
NCBI Accession #	P28068.1
UniProt Primary Accession #	P28068
UniProt Secondary Accession #	O77936; Q13012; Q29751; Q58ZE2; Q5SNZ8; Q5STC4; Q9XRX2
UniProt Related Accession #	P28068
NCBI Official Full Name	HLA class II histocompatibility antigen, DM beta chain
NCBI Official Synonym Full Names	major histocompatibility complex, class II, DM beta
NCBI Official Symbol	HLA-DMB
NCBI Official Synonym Symbols	RING7; D6S221E

UniProt Protein Name	HLA class II histocompatibility antigen, DM beta chain
UniProt Synonym Protein Names	MHC class II antigen DMB; Really interesting new gene 7 protein
Protein Family	HLA class II histocompatibility antigen
UniProt Gene Name	HLA-DMB
UniProt Synonym Gene Names	DMB; RING7
UniProt Entry Name	DMB_HUMAN
NCBI Protein Information	HLA class II histocompatibility antigen, DM beta chain
NCBI Summary for HLA-DMB	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 (APC: B lymphocytes, dendritic cells, macrophages). The beta chain is approximately 26-28 kDa and its gene contains 6 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, exon 4 encodes the transmembrane domain and exon 5 encodes the cytoplasmic tail. [provided by RefSeq, Jul 2008]
UniProt Comments for HLA-DMB	HLA-DMB: 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. Belongs to the MHC class II family. Protein type: Membrane protein, integral; Vesicle Chromosomal Location of Human Ortholog: 6p21.3 Cellular Component: lysosomal membrane; MHC class II protein complex Biological Process: antigen processing and presentation of exogenous peptide antigen via MHC class II; MHC class II protein complex assembly; peptide antigen assembly with MHC class II protein complex; positive regulation of T cell proliferation
Research Articles on HLA-DMB	**1.** This study provides novel insights into how HLA-DM efficiently catalyzes peptide loading during antigen presentation.
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