HLA-DMA Peptide - N-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	HLA-DMA, Blocking Peptide
Full Product Name	HLA-DMA Peptide - N-terminal region
Product Gene Name	HLA-DMA blocking peptide
Product Synonym Gene Name	D6S222E; DMA; HLADM; RING6
Sequence	GLSEAYDEDQ LFFFDFSQNT RVPRLPEFAD WAQEQGDAPA ILFDKEFCEW
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	HLA-DMA peptide (MBS3240061) is used for blocking the activity of HLA-DMA antibody (MBS3215147)
Molecular Weight	29kDa
Product Categories/Family for HLA-DMA blocking peptide	Peptide
Applications Tested/Suitable for HLA-DMA blocking peptide	Western Blot (WB)
Related Product Information for HLA-DMA blocking peptide	This is a synthetic peptide designed for use in combination with anti-HLA-DMA Antibody, made Target Description: HLA-DMA belongs to the HLA class II alpha chain paralogues. This class II molecule is a heterodimer consisting of an alpha (DMA) and a beta chain (DMB), 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 molecule from the peptide binding site. Class II molecules are expressed in antigen presenting cells (APC: B lymphocytes, dendritic cells, macrophages). The alpha chain is approximately 33-35 kDa and its gene contains 5 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, exon 4 encodes the transmembrane domain and the cytoplasmic tail.
Other Notes	Small volumes of HLA-DMA 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-DMA purchase	MBS3240061 is a blocking peptide targeting HLA-DMA. Also known as HLA-DMA Peptide - N-terminal region. Reactive in Human.

ADDITIONAL DETAILS

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

NCBI GI #	18765715
NCBI GeneID	3108
NCBI Accession #	NP_006111
UniProt Primary Accession #	Q31604
UniProt Related Accession #	P28067
GenBank Nucleotide #	NM_006120

NCBI Official Full Name	HLA class II histocompatibility antigen, DM alpha chain
NCBI Official Synonym Full Names	major histocompatibility complex, class II, DM alpha
NCBI Official Symbol	HLA-DMA
NCBI Official Synonym Symbols	DMA; HLADM; RING6; D6S222E
UniProt Protein Name	DMA protein
UniProt Synonym Protein Names	DMA protein
Protein Family	HLA class II histocompatibility antigen
UniProt Gene Name	DMA
UniProt Entry Name	Q31604_HUMAN
NCBI Protein Information	HLA class II histocompatibility antigen, DM alpha chain
NCBI Summary for HLA-DMA	HLA-DMA belongs to the HLA class II alpha chain paralogues. This class II molecule is a heterodimer consisting of an alpha (DMA) and a beta chain (DMB), 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 molecule from the peptide binding site. Class II molecules are expressed in antigen presenting cells (APC: B lymphocytes, dendritic cells, macrophages). The alpha chain is approximately 33-35 kDa and its gene contains 5 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, exon 4 encodes the transmembrane domain and the cytoplasmic tail. [provided by RefSeq, Jul 2008]
Research Articles on HLA-DMA	**1.** The ARL15 and HLA-DMA gene polymorphisms are associated with RA risk in Northwestern Han Chinese population.
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