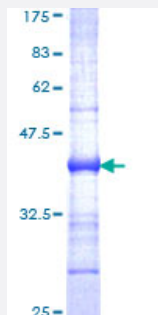


HLA-DMB (Human) Recombinant Protein (Q01)

Catalog # H00003109-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human HLA-DMB partial ORF (NP_002109, 22 a.a. - 129 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	VAHVESTCLLDDAGTPKDFTYCISFNKDLLTCWDPEENKMAPCEFGVLNSLANVLSQHLNQKDT LMQRLRNLQNCATHTQPFWGSLTNRTRPPSVQVAKTTPFNTRE
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.62
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — HLA-DMB

Entrez GeneID [3109](#)

GeneBank Accession# [NM_002118](#)

Protein Accession# [NP_002109](#)

Gene Name HLA-DMB

Gene Alias D6S221E, RING7

Gene Description major histocompatibility complex, class II, DM beta

Omim ID [142856](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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]

Other Designations MHC class II HLA-DMB|MHC class II antigen HLA-DM beta chain|OTTHUMP00000029257|class II histocompatibility antigen, M beta chain

Pathway

- [Allograft rejection](#)

- [Antigen processing and presentation](#)
- [Asthma](#)
- [Autoimmune thyroid disease](#)
- [Cell adhesion molecules \(CAMs\)](#)
- [Graft-versus-host disease](#)
- [Systemic lupus erythematosus](#)
- [Type I diabetes mellitus](#)

Disease

- [Antiphospholipid Syndrome](#)
- [Arthritis](#)
- [Cardiovascular Diseases](#)
- [Condylomata Acuminata](#)
- [Dermatitis](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Lupus Erythematosus](#)
- [Measles](#)
- [Psoriasis](#)