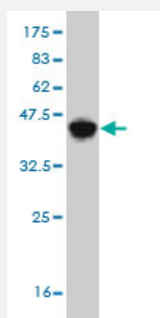


HLA-DMB monoclonal antibody (M01), clone 6B3

Catalog # H00003109-M01

Size 100 ug

Applications



Western Blot detection against Immunogen (37.62 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant HLA-DMB.
Immunogen	HLA-DMB (NP_002109, 22 a.a. ~ 129 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	VAHVESTCLDDAGTPKDFTYCISFNKDLLTCWDPEENKMAPCEFGVLNSLANVLSQHLNQKDT LMQRLRNGLQNCATHHTQPFWGSLTNRTRPPSVQVAKTTPFNTRE
Host	Mouse
Reactivity	Human
Isotype	IgG2b Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.62 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

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

Publication Reference

- [EXTRACELLULAR AND MEMBRANE-ASSOCIATED PROSTATE CANCER MARKERS.](#)

George G. Klee, George Vasmatazis, Farhad Kosari, Eric W. Klee

United States Patent Application Publication 2010 Feb; [Epub].

Application: Array, Mammal, Prostate cancer

- [Increased HLA-DMB expression in the tumor epithelium is associated with increased CTL infiltration and improved prognosis in advanced-stage serous ovarian cancer.](#)

Callahan MJ, Nagymanyoki Z, Bonome T, Johnson ME, Litkouhi B, Sullivan EH, Hirsch MS, Matulonis UA, Liu J, Birrer MJ, Berkowitz RS, Mok SC.

Clinical Cancer Research 2008 Dec; 14(23):7667.

Application: IHC-P, Human, tumor epithelium, ovarian cancer

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](#)