

Datasheet

HLA-DQB1 monoclonal antibody (M01), clone 4B7-E2

Catalog Number: H00003119-M01

Regulation Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against a full length recombinant HLA-DQB1.

Clone Name: 4B7-E2

Immunogen: HLA-DQB1 (AAH12106, 1 a.a. ~ 265 a.a) full length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. (A deletion mutation of cytidine at 783bp happened to the immunogen of this antibody, resulting in 4 additional aa (ERPH) translated at

Sequence:

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MSWKKALRIPGGLRVATVTLMLAMLSTPVAEGRDSPE  
DFVYQFKGMCYFTNGTERVRLVTRYIYNREEYARFDS  
DVGVYRAVTPLGPPAAEYWNSQKEVLERTRAEALDTVC  
RHNYQLELRRTTLQRRVEPTVTISPSRTEALNHHNLLVC  
SVTDFYPAQIKVRWFRNDQEETTGVVSTPLIRNGDWT  
FQILVLEMTPQRGDVYTCHVEHPSLQNPPIIVEWRAQ  
SESAQSKMLSGIGGFVLGLIFLGLGLIIHHS
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Host: Mouse

Reactivity: Human

Applications: ELISA, IHC-P, S-ELISA, WB-Re, WB-Tr
(See our web site product page for detailed applications information)

Protocols: See our web site at
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Isotype: IgG2a kappa

Storage Buffer: In 1x PBS, pH 7.4

Storage Instruction: Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 3119

Gene Symbol: HLA-DQB1

Gene Alias: CELIAC1, HLA-DQB, IDDM1

Gene Summary: HLA-DQB1 belongs to the HLA class II beta chain paralogues. This class II molecule is a heterodimer consisting of an alpha (DQA) and a beta chain (DQB), both anchored in the membrane. It plays a central role in the immune system by presenting peptides derived from extracellular proteins. Class II molecules are expressed in antigen presenting cells (APC: B lymphocytes, dendritic cells, macrophages). The beta chain is approximately 26-28 kDa and it 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. Within the DQ molecule both the alpha chain and the beta chain contain the polymorphisms specifying the peptide binding specificities, resulting in up to 4 different molecules. Typing for these polymorphisms is routinely done for bone marrow transplantation. [provided by RefSeq]