

Recombinant Full Length Human HLA-DQB1 Protein, GST-tagged

Cat. No. HLA-DQB1-673HF Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant full length Human HLA-DQB1(1 a.a. - 261 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.

Species

Human

Source

In Vitro Cell Free System

ProteinLength

261 amino acids

Description

HLA-DQB1 belongs to the HLA class II beta chain paralogs. 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 six exons. Exon 1 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 four different molecules. Typing for these polymorphisms is routinely done for bone marrow transplantation. Alternative splicing results in multiple transcript variants.

Form

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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Molecular Mass	56.3 kDa
AA Sequence	MSWKKALRIP GGLRVATVTL MLAMLSTPVA EGRDSPEDFV YQFKGMCYFT NGTERVRLVT RYIYNREEYA RFDSVDGVYR AVTPLGPPAA EYWNSQKEVL ERTRAEALDTV CRHNYQLELR TTLQRRVEPT VTISPSRTEA LNHHNLLVCS VTDFYPAQIK VRWFRNDQEE TTGVVSTPLI RINGDWTFQIL VMLEMTPQRG DVYTCHVEHP SLQNPIIVIEW RAQSESAQSK MLSGIGGFVL GLIFLGLGLI IHRSQKGLL H
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	HLA-DQB1 major histocompatibility complex, class II, DQ beta 1 [Homo sapiens]
Official Symbol	HLA-DQB1
Synonyms	HLA-DQB1; major histocompatibility complex, class II, DQ beta 1; HLA DQB; HLA class II histocompatibility antigen, DQ beta 1 chain; CELIAC1; IDDM1; MHC DQ beta; MHC class2 antigen; lymphocyte antigen; MHC class II antigen DQB1; MHC class II DQ beta chain; MHC class II antigen HLA-DQ-beta-1; MHC class II HLA-DQ beta glycoprotein; HLA-DQB
Gene ID	3119
mRNA Refseq	NM_001243961
Protein Refseq	NP_001230890

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MIM	604305
UniProt ID	P01920

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