

Recombinant Human HLA-DQB1

Cat. No. HLA-DQB1-27714TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human HLA DQw1 (aa 129-217) with a N terminal proprietary tag: predicted molecular weight 35.79 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	89 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.
Molecular Weight	35.790kDa inclusive of tags
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	PTVTISPSRTEALNHHNLLVCSVTDFYPAQIKVRWFRNDQEETGGVSTPLIRNGDW TFQILVMLEMTPQRGDVYTCHVEHPSLQNPII

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;
Gene ID	3119
mRNA Refseq	NM_001243961
Protein Refseq	NP_001230890
MIM	604305
Uniprot ID	P01920
Chromosome Location	6p21.3

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Pathway	Adaptive Immune System, organism-specific biosystem; Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem;
Function	MHC class II receptor activity;

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