

Recombinant Full Length Human HLA-DRB3 Protein, GST-tagged

Cat. No. HLA-DRB3-234HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Human HLA-DRB3 encoding human HLA-DRB3 full-length ORF (1 a.a. - 266 a.a.) fused with GST-tag at N-terminal was expressed in wheat germ.

Species

Human

Source

In Vitro Cell Free System

ProteinLength

1 a.a. - 266 a.a.

Description

HLA-DRB3 belongs to the HLA class II beta chain paralogues. This class II molecule is a heterodimer consisting of an alpha (DRA) and a beta (DRB) chain, 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 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. Within the DR molecule the beta chain contains all the polymorphisms specifying the peptide binding specificities. Typing for these polymorphisms is routinely done for bone marrow and kidney transplantation. DRB1 is expressed at a level five times higher than its paralogues DRB3, DRB4 and DRB5. The presence of DRB3 is linked with allelic variants of DRB1, otherwise it is omitted.

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Molecular Mass	55 kDa
AA Sequence	MVCLKLPGGG SLAALTVTLM VLSSRLAFAG DTRPRFLELR KSECHFFNGT ERVRYLDTRYF HNQEEFLRFD SDVGEYRAVT ELGRPVAESW NSQKDLLEQK RGRVDNYCRH NYGVGESFTV QRRVHPQVTV YPAKTQPLQH HNLLVCSVSG FYPGSIEVRW FRNGQEEKAG VVSTGLIQNG DWTFQTLVML ETVPRSGEVY TCQVEHPSVT SALTVEWRAR SESAQSKMLS GVGGFVLGLL FLGAGLFIYF RNQKGHSGLQ PTGFLS
Purity	Glutathione Sepharose 4 Fast Flow
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	HLA-DRB3 major histocompatibility complex, class II, DR beta 3 [Homo sapiens]
Official Symbol	HLA-DRB3
Synonyms	HLA-DR3B; major histocompatibility complex, class II, DR beta 3; DR7; MHC class II antigen DRB3; human leucocyte antigen DRB3; MHC class II HLA-DR beta 3 chain; MHC class II antigen DR beta 3 chain; HLA class II histocompatibility antigen, DR beta 3 chain; HLA class II histocompatibility antigen, DRB1-7 beta chain
Gene ID	3125
mRNA Refseq	NM_022555
Protein Refseq	NP_072049

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MIM	612735
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UniProt ID	P13761
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