

Recombinant Human HLA-DRB3, GST-tagged

Cat. No. HLA-DRB3-1210H **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	Wheat Germ
ProteinLength	1-266 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.
Molecular Mass	55 kDa

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Sequence	MVCLKLPGGSSLAALTVTLMVLSSRLAFAGDTRPRFLELRKSECHFFNGTERVRYLD RYFHNQEEFLRFDSVDGEYRAVTELGRPVAESWNSQKDLLEQKRGRVDNYCRHNY GVGESFTVQRRVHPQVTVPYPAKTQPLQHNNLLVCSVSGFYPGSIEVRWFRNGQEE KAGVVSTGLIQNGDWTFQTLVMLETVPRSGEVYTCQVEHPSVTSALTVEWRARSES AQSKMLSGVGGFVLGLLFLGAGLFIYFRNQKGHSGLQPTGFLS
Purification	Glutathione Sepharose 4 Fast Flow
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH8.0 in the elution buffer.
Stability	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
OfficialSymbol	HLA-DRB3
GENE INFORMATION	
Gene Name	HLA-DRB3 major histocompatibility complex, class II, DR beta 3 [Homo sapiens]
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
MIM	612735

UniProt ID	P13761
Chromosome Location	6p21.3
Pathway	Adaptive Immune System; Allograft rejection; Antigen processing and presentation; Asthma; Autoimmune thyroid disease; Cell adhesion molecules (CAMs)
Function	MHC class II receptor activity; peptide antigen binding; protein binding; MHC class II receptor activity

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