

Recombinant Full Length Human HLA-DRB4 Protein, GST-tagged

Cat. No. HLA-DRB4-235HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Human HLA-DRB4 encoding human HLA-DRB4 full-length ORF (30 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

30 a.a. - 266 a.a.

Description

HLA-DRB4 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 DRB4 is linked with allelic variants of DRB1, otherwise it is omitted.

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Molecular Mass	51.81 kDa
AA Sequence	GDTQPRFLEQ AKCECRFLNG TERVWNLIRY IYNQEEYARY NSDLGEYQAV TELGRPDAEY WNSQKDLLER RRAEVDTYCR YNYGVVESFT VQRRVQPKVT VYPSKTQPLQ HHNLLVCSVN GFYPGSIEVR WFRNGQEEKA GVVSTGLIQN GDWTFQTLVM LETVPRSGEV YTCQVEHPSM MSPLTVQWSA RSESAQSKML SGVGGFVLGL LFLGTGLFIY FRNQKGHSGL QPTGLLS
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, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	HLA-DRB4 – major histocompatibility complex, class II, DR beta 4 [Homo sapiens]
Official Symbol	HLA-DRB4
Synonyms	DR4; DR-4; DRB4; HLA-DR4B; major histocompatibility complex, class II, DR beta 4; leukocyte antigen; MHC class2 antigen; MHC HLA DR-beta chain; MHC class II antigen DRB4; DRB1 transplantation antigen; human leucocyte antigen DRB4; MHC class II antigen HLA-DR-beta; HLA class II histocompatibility antigen, DR beta 4 chain
Gene ID	3126
mRNA Refseq	NM_021983
Protein Refseq	NP_068818

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UniProt ID

P13760

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