

Recombinant Full Length Human HLA-DRB4 Protein, Flag tagged

Cat. No. HLA-DRB4-50HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein of human major histocompatibility complex, class II, DR beta 4 (HLA-DRB4) with Flag tag was expressed in HEK293.
Species	Human
Source	HEK293T
ProteinLength	1-266 aa
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. 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. There are multiple pseudogenes of this gene.
Form	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Molecular Mass	27 kDa

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AASequence	MVCLKLPGGSCMAALTVTLTVLSSPLALAGDTQPRFLEQAKCECHFLNGTERVWNLI RYIYNQEEYARYNSDLGEYQAVTELGRPDAEYWNSQKDLLERRRAEVDITYCRINY GVVESFTVQRRVQPKVTYVPSKTQPLQHNNLLVCSVNGFYPGSIEVRWFRNGQEE KAGVVSTGLIQNGDWTFTQTLVMLETVPRSGEVYTCQVEHPSMMSPLTVQWSARSE SAQSKMLSGVGGFVLGLLFLGTGLFIYFRNQKGHSGLQPTGLLSTRTRPLEQKLISE EDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Notes	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage	Store at -80 centigrade. Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Concentration	> 0.05 µg/µL as determined by microplate BCA method
Shipping	Dry Ice

GENE INFORMATION

Gene Name	HLA-DRB4 major histocompatibility complex, class II, DR beta 4 [Homo sapiens (human)]
Official Symbol	HLA-DRB4
Synonyms	HLA-DRB4; major histocompatibility complex, class II, DR beta 4; DR4; DRB4; HLA-DRB; HLA-DR4B; HLA-DRB4*; major histocompatibility complex, class II, DR beta 4; HLA class II histocompatibility antigen, DR beta 4 chain; MHC class II antigen DRB4
Gene ID	3126

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mRNA Refseq NM_021983

Protein Refseq NP_068818

UniProt ID P13762

SDS-PAGE



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