

Recombinant Human HLA-DRB4 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. HLA-DRB4-2263H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HLA MS Standard C13 and N15-labeled recombinant protein (NP_068818) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	29.9 kDa
AA Sequence	MVCLKLPGGSCMAALTVTLTVLSSPLALAGDTQPRFLEQAKCECHFLNGTERVWNLI RYIYNQEEYARYNSDLGEYQAVTELGRPDAEYWNSQKDLLERRRAEVDITYCRINY

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GVVESFTVQRRVQPKVTVYPSKTQPLQHNNLLVCSVNGFYPGSIEVRWFRNGQEE
KAGVVSTGLIQNGDWTFQTLVMLETVPRSGEVYTCQVEHPSMMSPLTVQWSARSE
SAQSKMLSGVGGFVLGLLFLGTGLFIYFRNQKGHSGLQPTGLLSTRTRPLEQKLISE
EDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

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; HLA DR4B; DR4; DR-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; DRB4; HLA-DR4B;

Gene ID 3126

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mRNA Refseq NM_021983

Protein Refseq NP_068818

UniProt ID P13762

SDS-PAGE



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