

Recombinant Human HLA-DRB1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. HLA-DRB1-4573H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HLA MS Standard C13 and N15-labeled recombinant protein (NP_002115) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	HLA-DRB1 belongs to the HLA class II beta chain paralogs. The class II molecule is a heterodimer consisting of an alpha (DRA) and a beta chain (DRB), 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. It is encoded by 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. Hundreds of DRB1 alleles have been described and some alleles have increased frequencies associated with certain diseases. There are multiple pseudogenes of this gene.
Molecular Mass	29.97 kDa
AA Sequence	MVCLKLPGGSCMTALTVTLMVLSSPLALAGDTRPRFLWQLKFECHFFNGTERVRLL ERCIYNQEE SVRFDSDVGEYRAVTELGRPDAEYWNSQKDLLEQRRAAVDTYCRHN

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YGVGESFTVQRRVEPKVTVYPSKTQPLQHHNLLVCSVSGFYPGSIEVRWFRNGQE
 EKAGVVSTGLIQNGDWTFTQLVMLETVPRSGEVYTCQVEHPSVTSPLTVEWRARSE
 SAQSKMLSGVGGFVLGLLFLGAGLFIYFRNQKGHSGLQPTGFLSTRTRPLEQKLISE
 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-DRB1 major histocompatibility complex, class II, DR beta 1 [Homo sapiens (human)]

Official Symbol HLA-DRB1

Synonyms HLA-DRB1; major histocompatibility complex, class II, DR beta 1; HLA DR1B; DW2.2/DR2.2; MHC class II antigen; lymphocyte antigen DRB1; MHC class II HLA-DRw10-beta; human leucocyte antigen DRB1; MHC class II HLA-DR beta 1 chain; MHC class II HLA-DR-beta cell surface glycoprotein; HLA class II histocompatibility antigen, DR-1 beta chain; SS1; DRB1; DRw10; HLA-DRB; HLA-DR1B; FLJ75017; FLJ76359;

Gene ID 3123

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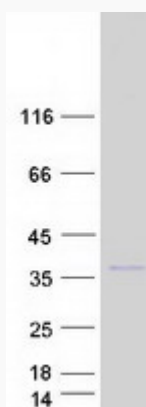
mRNA Refseq [NM_002124](#)

Protein Refseq [NP_002115](#)

MIM [142857](#)

UniProt ID [P01911](#)

SDS-PAGE



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