

Active Recombinant Full Length HLA-DRB1 Protein, Flag tagged

Cat. No. HLA-DRB1-10HFL Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant protein of human major histocompatibility complex, class II, DR beta 1 (HLA-DRB1) with Flag tag was expressed in HEK293T.

Species

Human

Source

HEK293T

ProteinLength

1-266 aa

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 or conditions. For example, DRB1*1302 has been related to acute and chronic hepatitis B virus persistence. There are multiple pseudogenes of this gene.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Form	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Molecular Mass	29.9 kDa
AASequence	MVCLKLPGGSCMTALTVTLMVLSSPLALSGDTRPRFLWQPKRECHFFNGTERVRFL DRYFYNQEESVRFDSVGEFRAVTELGRPDAEYWNSQKDILEQARA AVDTYCRHN YGVVESFTVQRRVQPKVTYVPSKTQPLQHHNLLVCSVSGFYPGSIEVRWFLNGQEE KAGMVSTGLIQNGDWTFQTLVMLETVPRSGEVYTCQVEHPSVTSPLTVEWRARSE SAQSKMLSGVGGFVLGLLFLGAGLFIYFRNQKGHSGLQPTGFLSTRTRPLEQKLISE 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

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;

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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](#)

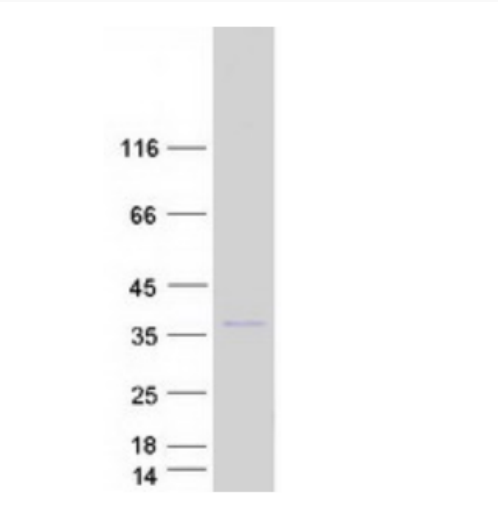
mRNA Refseq [NM_002124](#)

Protein Refseq [NP_002115](#)

MIM [142857](#)

UniProt ID [P01911](#)

SDS-PAGE



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