Recombinant Full Length Human HLA-DPB1 Protein

Cat. No. HLA-DPB1-231HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human HLA DPB1 with N terminal proprietary tag; Predicted MWt 54.49 kDa.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	258 amino acids
Description	HLA-DPB belongs to the HLA class II beta chain paralogues. This class II molecule is a heterodimer consisting of an alpha (DPA) and a beta chain (DPB), 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 DP molecule both the alpha chain and the beta chain contain the polymorphisms specifying the peptide binding specificities, resulting in up to 4 different molecules.
Form	Liquid
Molecular Mass	54.490kDa inclusive of tags
AA Sequence	MMVLQVSAAPRTVALTALLMVLLTSVVQGRATPENYVYQG RQECYAFNGTQRFLE

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	RYIYNREEYARFDSDVGEFRAVT ELGRPAAEYWNSQKDILEEKRAVPDRVCRHNYE LDEAVTL QRRVQPKVNVSPSKKGPLQHHNLLVCHVTDFYPGSIQV RWFLNGQEET AGVVSTNLIRNGDWTFQILVMLEMTPQQGD VYICQVEHTSLDSPVTVEWKAQSDSA QSKTLTGAGGFV LGLIICGVGIFMHRRSKKVQRGSA
Purity	Proprietary Purification
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.
Storage Buffer	pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.

GENE INFORMATION

Gene Name	HLA-DPB1 major histocompatibility complex, class II, DP beta 1 [Homo sapiens]
Official Symbol	HLA-DPB1
Synonyms	HLA-DPB1; major histocompatibility complex, class II, DP beta 1; HLA DP1B; HLA class II histocompatibility antigen, DP beta 1 chain
Gene ID	3115
mRNA Refseq	NM_002121
Protein Refseq	NP_002112
MIM	142858
UniProt ID	P04440

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