Recombinant Full Length Human HLA-DPA1 Protein, GST&His tagged

Cat. No. HLA-DPA1-08HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Human major hist centigradeompatibility complex, class II, DP alpha 1 (HLA-DPA1), full length, with N-terminal GST and C-terminal His tag, expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-260 aa
Description	HLA-DPA1 belongs to the HLA class II alpha chain paralogues. This class II molecule is a heterodimer consisting of an alpha (DPA) and a beta (DPB) 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 (APC: B lymph centigradeytes, dendritic cells, macrophages). The alpha chain is approximately 33-35 kDa and its gene contains 5 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, exon 4 encodes the transmembrane domain and 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	50 mM Tris-HCl, pH 8.0, 8 M urea
Molecular Mass	54.1 kDa

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

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 pr centigradeess.
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-DPA1 major hist centigradeompatibility complex, class II, DP alpha 1 [Homo sapiens (human)]
Official Symbol	HLA-DPA1
Synonyms	HLA-DPA1; major hist centigradeompatibility complex, class II, DP alpha 1; HLA DP1A; HLA class II hist centigradeompatibility antigen, DP alpha 1 chain; MHC class II DPA1; HLA-SB alpha chain; MHC class II antigen; MHC class II DP3-alpha; Primed lymph centigradeyte test-1; MHC class II HLA-DPA1 antigen; HLA class II hist centigradeompatibility antigen, DP alpha chain; PLT1; HLADP; HLASB; DP(W3); DP(W4); HLA-DP1A;
Gene ID	3113
mRNA Refseq	NM_033554
Protein Refseq	NP_291032
MIM	142880

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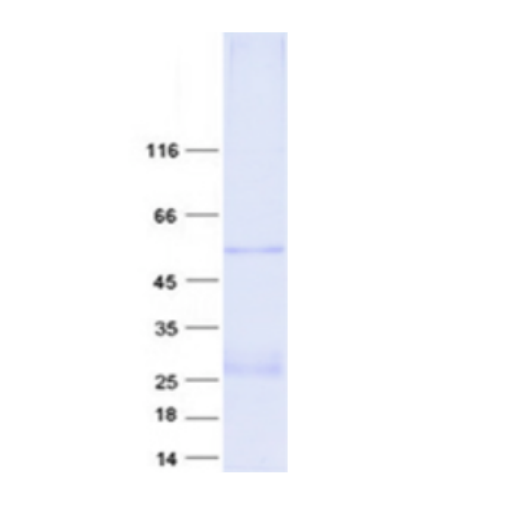
UniProt ID	P20036
SDS-PAGE and WB	

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