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

Cat. No. HLA-DPA1-3582HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human HLA-DPA1 full-length ORF (AAH09956, 1 a.a. - 260 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	260 amino acids
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 lymphocytes, 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. [provided by RefSeq
Molecular Mass	54.34 kDa
AA Sequence	MRPEDRMFHIRAVILRALSLAFLLSLRGAGAIKADHVSTYAAFVQTHRPTGEFMFEFD EDEQFYVDLDKKETVWHLEEFGRAFSFEAQGGLANIAILNNNLNTLIQRSNHTQAAN

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	DPPEVTVFPKEPVELGQPNTLICHIDRFFPPVLNVTWLCNGEPVTEGVAESLFLPRT DYSFHKFHYLTFVPSAEDVYDCRVEHWGLDQPLLKHWEAQEPIQMPETTETVLCAL GLVLGLVGIIVGTVLIIKSLRSGHDPRAQGPL
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	HLA-DPA1 major histocompatibility complex, class II, DP alpha 1 [Homo sapiens]
Official Symbol	HLA-DPA1
Synonyms	HLA-DPA1; major histocompatibility complex, class II, DP alpha 1; HLA DP1A; HLA class II histocompatibility antigen, DP alpha 1 chain; MHC class II DPA1; HLA-SB alpha chain; MHC class II antigen; MHC class II DP3-alpha; Primed lymphocyte test-1; MHC class II HLA-DPA1 antigen; HLA class II histocompatibility antigen, DP alpha chain; PLT1; HLADP; HLASB; DP(W3); DP(W4); HLA-DP1A;
Gene ID	3113
mRNA Refseq	NM_001242524

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Protein Refseq	NP_001229453
MIM	142880
UniProt ID	P20036

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