

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
 GLVLGLVGIIIVGTVLIKSLRSGHDPRAQGGL

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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