

Recombinant Human HLA-DQA1 Protein, GST-tagged

Cat. No. HLA-DQA1-4844H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human HLA-DQA1 partial ORF (NP_002113.2, 24 a.a. - 110 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
ProteinLength	24-110 a.a.
Description	HLA-DQA1 belongs to the HLA class II alpha chain paralogues. The class II molecule is a heterodimer consisting of an alpha (DQA) and a beta chain (DQB), 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. It is encoded by 5 exons; exon 1 encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, and exon 4 encodes the transmembrane domain and the cytoplasmic tail. Within the DQ molecule both the alpha chain and the beta chain contain the polymorphisms specifying the peptide binding specificities, resulting in up to four different molecules. Typing for these polymorphisms is routinely done for bone marrow transplantation. [provided by RefSeq]
Molecular Mass	35.31 kDa
AA Sequence	EDIVADHVASCGVNLYQFYGPSGQYTHEFDGDEEFYVDLERKETAWRWPEFSKFG

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GFDPQGALRNMAVAKHNLNIMIKRYNSTAATN

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-DQA1 major histocompatibility complex, class II, DQ alpha 1 \[Homo sapiens \]](#)

Official Symbol

[HLA-DQA1](#)

Synonyms

HLA-DQA1; major histocompatibility complex, class II, DQ alpha 1; HLA DQA; HLA class II histocompatibility antigen, DQ alpha 1 chain; CELIAC1; HLA-DCA; DC-alpha; DC-1 alpha chain; MHC HLA-DQ alpha; MHC class II DQA1; MHC class II antigen; leucocyte antigen DQA1; MHC class II HLA-DQ-alpha-1; leucocyte antigen alpha chain; MHC class II surface glycoprotein; MHC class II HLA-D alpha glycoprotein; HLA class II histocompatibility antigen, DQ(W3) alpha chain; CD; GSE; DQ-A1; HLA-DQA; FLJ27088; FLJ27328; MGC149527;

Gene ID

[3117](#)

mRNA Refseq

[NM_002122](#)

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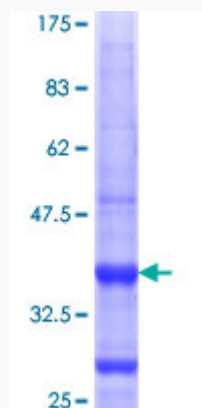
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Protein Refseq NP_002113

MIM 146880

UniProt ID P01909

**Quality Control
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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