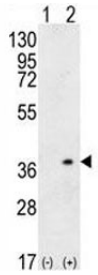
HLA-DQA1 Antibody (F40097)

Catalog No.	Formulation	Size
F40097-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F40097-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

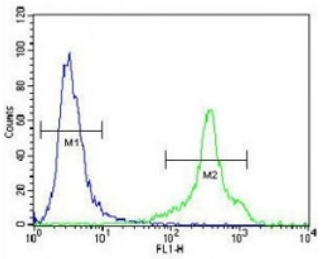
Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P01909
Applications	Western Blot : 1:1000 Flow Cytometry : 1:10-1:50
Limitations	This HLA-DQA1 antibody is available for research use only.

HLA-DQA1 antibody western blot analysis in NCI-H460 lysate. Expected molecular weight ~34 kDa.



Western blot analysis of HLA-DQA1 antibody and 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (2) with the HLA-DQA1 gene.



HLA-DQA1 antibody flow cytometric analysis of NCI-H460 cells (green) compared to a negative control cell (blue). FITC-conjugated goat-anti-rabbit secondary Ab was used for the analysis.

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.

Application Notes

Titration of the HLA-DQA1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 39-66 from the human protein was used as the immunogen for this HLA-DQA1 antibody.

Storage

Aliquot the HLA-DQA1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.