

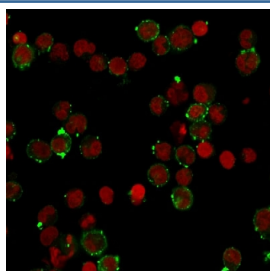
Recombinant HLA-DQ Antibody (MHC II) [clone HLA-DQA1/2866R] (V7420)

Catalog No.	Formulation	Size
V7420-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7420-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7420SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

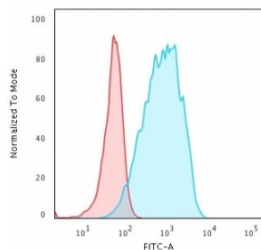
Recombinant **RABBIT MONOCLONAL**

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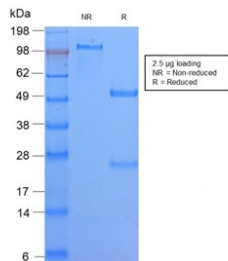
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	HLA-DQA1/2866R
Purity	Protein A affinity chromatography
UniProt	P01908, P01906, P01920
Localization	Cell surface
Applications	Flow Cytometry : 1-2ug/10 ⁶ cells Immunofluorescence : 1-2ug/ml
Limitations	This recombinant HLA-DQ antibody is available for research use only.



Immunofluorescent staining of human Raji cells with recombinant HLA-DQ antibody (green, clone HLA-DQA1/2866R) and Reddot nuclear stain (red).



FACS testing of human Raji cells with recombinant HLA-DQ antibody (blue, clone HLA-DQA1/2866R) and isotype control (red).



SDS-PAGE analysis of purified, BSA-free recombinant HLA-DQ antibody (clone HLA-DQA1/2866R) as confirmation of integrity and purity.

Description

Recognizes a DQ antigen, which is a dimer of 60kDa. 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 33-35kDa. 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

Optimal dilution of the recombinant HLA-DQ antibody should be determined by the researcher.

Immunogen

Full length recombinant human protein was used as the immunogen for the recombinant HLA-DQ antibody.

Storage

Store the recombinant HLA-DQ antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).