

Datasheet for ABIN6939634

Recombinant anti-HLA DQ antibody

3 Images



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Overview

Quantity:	100 µg
Target:	HLA DQ (HLA-DQ)
Reactivity:	Human, Pig
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This HLA DQ antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunofluorescence (IF), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	Recombinant full-length human HLA-DQ protein
Clone:	HLA-DQA1-2866R
Isotype:	IgG
Specificity:	Recognizes a DQ antigen, which is a dimer of 60 kDa. 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

Product Details

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. This MAb strongly blocks cytotoxicity activity of T4-positive cytotoxic T cell clones.

Purification: Purified by Protein A/G

Target Details

Target: HLA DQ (HLA-DQ)

Alternative Name: HLA-DQ ([HLA-DQ Products](#))

Molecular Weight: 60kDa

Gene ID: 3117, 3118, 3119

UniProt: [P01908](#), [P01909](#), [P01920](#)

Application Details

Application Notes: Positive Control: Raji cells. Tonsil or lymph node.
Known Application: Flow Cytometry (1-2 µg/million cells), Immunofluorescence (1-2 µg/mL), Immunohistochemistry (Frozen only) (0.5-1 µg/mL for 30 minutes at RT) Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

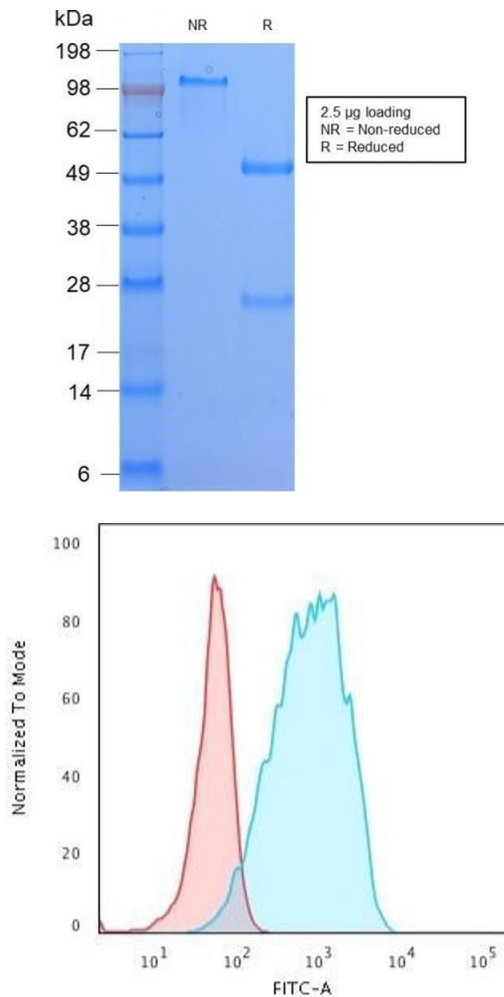
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -80 °C

Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months

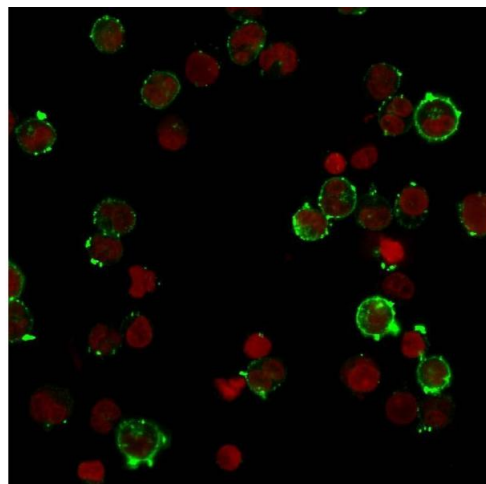


SDS-PAGE

Image 1. SDS-PAGE Analysis Purified HLA-DQ Rabbit Recombinant Monoclonal Ab (HLA-DQA1/2866R). Confirmation of Purity and Integrity of Antibody.

Flow Cytometry

Image 2. Flow Cytometric Analysis of Raji cells. HLA-DQ Rabbit Recombinant Monoclonal Antibody (HLA-DQA1/2866R) followed by goat anti-Rabbit IgG-CF488 (Blue); Isotype Control (Red).



Immunofluorescence

Image 3. Immunofluorescent staining of Raji cells. HLA-DQ Rabbit Recombinant Monoclonal (HLA-DQA1/2866R) followed by goat anti-rabbit IgG-CF488 (Green). The nuclear counterstain is Reddot (Red).