

36-2485: Anti-HLA-DQ (MHC II) Monoclonal Antibody(Clone: HLA-DQA1/2866R)

Clonality :	Monoclonal
Clone Name :	HLA-DQA1/2866R
Application :	FACS,IF,IHC
Reactivity :	Human
Gene :	HLA-DQ
Gene ID :	3117; 3118; 3119
Uniprot ID :	P01908; P01909; P01920
Alternative Name :	CELIAC1; DC 4 alpha chain Gluten sensitive enteropathy (celiac disease) (GSE); HLA class II histocompatibility antigen DQ(1) alpha chain; HLA class II histocompatibility antigen DQ(3) alpha chain; HLA DQA1; HLA DQB1; IDDM1; Leucocyte antigen DQA1; Major histocompatibility complex class II DQ alpha 1; Major histocompatibility complex class II DQ beta 1
Isotype :	Rabbit IgG
Immunogen Information :	Recombinant full-length human HLA-DQ protein

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

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	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.

Application Note

Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); Immunohistochemistry (Frozen only) (1-2ug/ml for 30 minutes at RT)

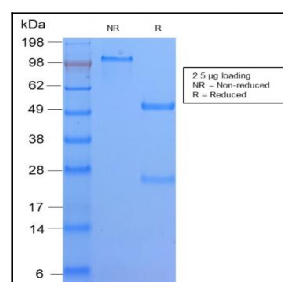


Fig. 1: SDS-PAGE Analysis Purified HLA-DQ Rabbit Recombinant Monoclonal Ab (HLA-DQA1/2866R). Confirmation of Purity and Integrity of Antibody.

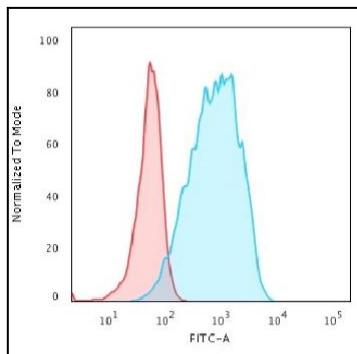


Fig. 2: Flow Cytometric Analysis of Raji cells. HLA-DQ Rabbit Recombinant Monoclonal Antibody (HLA-DQA1/2866R) followed by goat anti-Rabbit IgG-CF488 (Blue); Isotype Control (Red).

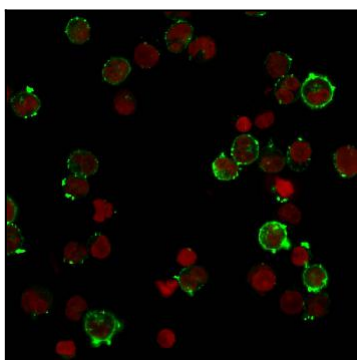


Fig. 3: Immunofluorescent staining of Raji cells. HLA-DQ Rabbit Recombinant Monoclonal (HLA-DQA1/2866R) followed by goat anti-rabbit IgG-CF488 (Green). The nuclear counterstain is Reddot (Red).