

Datasheet for ABIN6297784 **anti-HLA-DQA1 antibody**



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Overview

Quantity:	100 µg
Target:	HLA-DQA1
Reactivity:	Human, Pig
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This HLA-DQA1 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunofluorescence (IF), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Purpose:	Mouse anti-Human/Pig HLA-DQ Antibody (MHC II) [Sodium Azide Free]
Immunogen:	The T4-positive CTL clone HG-38 was used as the immunogen for the HLA-DQ antibody.
Specificity:	Cell surface
Purification:	The T4-positive CTL clone HG-38 was used as the immunogen for the HLA-DQ antibody.

Target Details

Target:	HLA-DQA1
Alternative Name:	HLA class II histocompatibility antigen, DQ alpha 1 chain (HLA-DQA1 Products)
Background:	Target Description: 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

Target Details

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.

Gene Symbol: HLA-DQA1///HLA-DQB1///HLA-DQB

UniProt:	P01909 , P01920
Pathways:	TCR Signaling , Cancer Immune Checkpoints , Human Leukocyte Antigen (HLA) in Adaptive Immune Response

Application Details

Application Notes:	Flow Cytometry: 0.5-1 µg/million cells in 0.1ml Immunofluorescence: 0.5-1 µg/mL Immunohistochemistry (Frozen): 0.5-1 µg/mL for 30 min at RT (1)
Restrictions:	For Research Use only

Handling

Buffer:	In 1X PBS, BSA free, sodium azide free
Preservative:	Azide free
Storage:	4 °C,-20 °C
Storage Comment:	2-8°C. The azide-free format should be aliquoted and stored at -20°C or colder.