Datasheet for ABIN952750

anti-HLA-DQA1 antibody (Middle Region)

2 Images

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Overview

Quantity:	0.4 mL
Target:	HLA-DQA1
Binding Specificity:	AA 56-84, Middle Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HLA-DQA1 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	KLH conjugated synthetic peptide between 56-84 amino acids from the Central region of Human HLA class II DQ alpha 1 / HLA-DQA1
Isotype:	Ig Fraction
Specificity:	This antibody recognizes Human HLA class II DQ alpha 1 / HLA-DQA1 (Center).
Purification:	Protein A column, followed by peptide affinity purification

Target Details

Target:	HLA-DQA1
Abstract:	HLA-DQA1 Products
Background:	HLA-DQA1 belongs to the HLA class II alpha chain paralogues. The class II molecule is a

Target Details

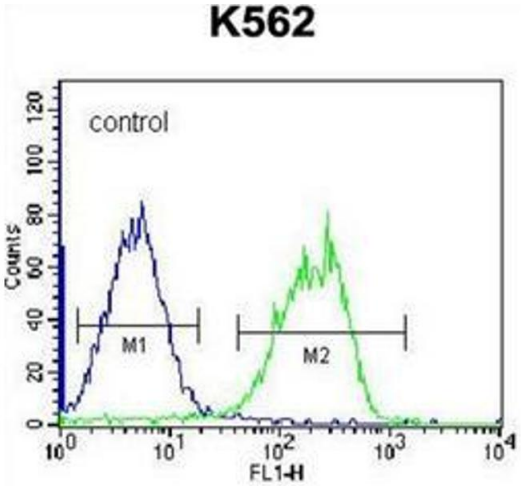
	heterodimer consisting of an alpha (DQA) and a beta chain (DQB), both anchored in the membrane. It plays a central role in the immune system by presenting peptides derived from extracellular proteins. Class II molecules are expressed in antigen presenting cells (APC: B Lymphocytes, dendritic cells, macrophages). 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.Synonyms: DC-1 alpha chain, DC-alpha, HLA class II histocompatibility antigen DQ(3) alpha chain, HLA-DCA, MHC class II DQA1
Molecular Weight:	27805 Da
Gene ID:	100133678
NCBI Accession:	NP_002113
Pathways:	TCR Signaling, Cancer Immune Checkpoints, Human Leukocyte Antigen (HLA) in Adaptive Immune Response

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

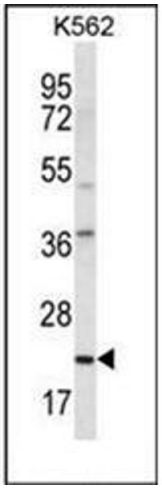
Handling

Format:	Liquid
Concentration:	0.25 mg/mL
Buffer:	PBS containing 0.09 % (W/V) Sodium Azide as preservative
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.



Flow Cytometry

Image 1. Flow cytometric analysis of K562 cells using HLA-DQA1 Antibody (Center) Cat.-No AP52053PU-N (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Western Blotting

Image 2. Western blot analysis of HLA-DQA1 Antibody (Center) in K562 cell line lysates (35ug/lane). This demonstrates the HLA-DQA1 antibody detected the HLA-DQA1 protein (arrow).