

## Product datasheet for **AP52053PU-N**

### HLADQA1 (HLA-DQA1) (Center) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	FC, WB
Recommended Dilution:	<b>ELISA:</b> 1/1000. <b>Western Blot:</b> 1/1000. <b>Flow Cytometry:</b> 1/10-1/50.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 56-84 amino acids from the Central region of Human HLA class II DQ alpha 1 / HLA-DQA1
Specificity:	This antibody recognizes Human HLA class II DQ alpha 1 / HLA-DQA1 (Center).
Formulation:	PBS containing 0.09% (W/V) Sodium Azide as preservative State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein A column, followed by peptide affinity purification
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	major histocompatibility complex, class II, DQ alpha 1
Database Link:	<a href="#">Entrez Gene 3117 Human P01909</a>



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**Background:**

HLA-DQA1 belongs to the HLA class II alpha chain paralogues. 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 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-DCA, MHC class II DQA1

**Note:**

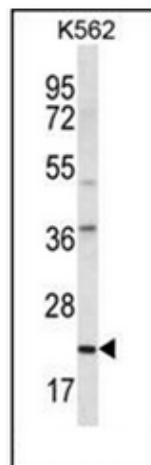
**Molecular Weight:** 27805 Da

**Protein Families:**

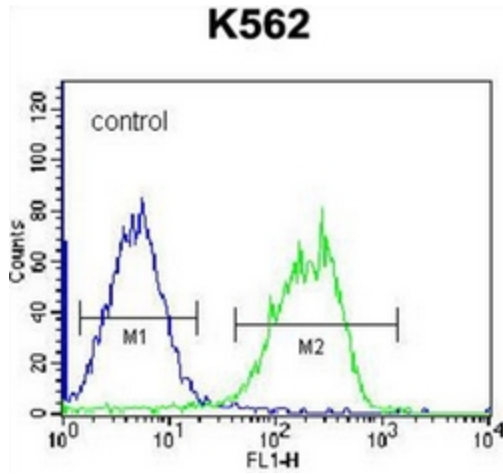
Transmembrane

**Protein Pathways:**

Allograft rejection, Antigen processing and presentation, Asthma, Autoimmune thyroid disease, Cell adhesion molecules (CAMs), Graft-versus-host disease, Systemic lupus erythematosus, Type I diabetes mellitus, Viral myocarditis

**Product images:**

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).



Flow cytometric analysis of K562 cells using HLA-DQA1 Antibody (Center) (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.