

Rabbit anti-Human HLA-DQA1 Polyclonal Antibody | anti-HLA-DQA1 antibody

HLA-DQA1 Antibody (N-term)

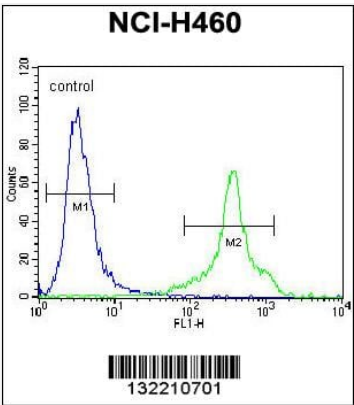
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA285214	Rabbit	Human	Flow Cytometry, Functional Assay, ELISA, Western Blot

PRODUCT SYNONYMS

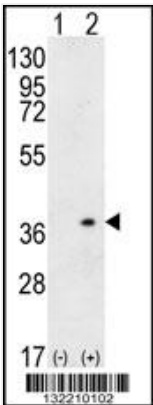
HLA-DQA1; Polyclonal Antibody; HLA-DQA1 Antibody (N-term); HLA class II histocompatibility antigen; DQ alpha 1 chain; DC-1 alpha chain; DC-alpha; HLA-DCA; MHC class II DQA1; anti-HLA-DQA1 antibody

PRODUCT SPECIFICATIONS

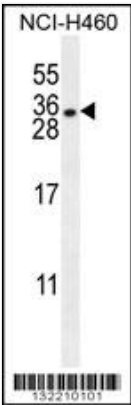
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This HLA-DQA1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 39-66 amino acids from the N-terminal region of human HLA-DQA1.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.4 (varies by lot)
Sequence Positions	39-66
Sequence Length	254
Applicable Applications for anti-HLA-DQA1 antibody	FCM/FACS (Flow Cytometry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



FCM/FACS (Flow Cytometry)
HLA-DQA1 Antibody (N-term) flow cytometric analysis of NCI-H460 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



WB (Western Blot)
Western blot analysis of HLA-DQA1 (arrow) using rabbit polyclonal HLA-DQA1 Antibody (N-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the HLA-DQA1 gene.



WB (Western Blot)
HLA-DQA1 Antibody (N-term) western blot analysis in NCI-H460 cell line lysates (35ug/lane). This demonstrates the HLA-DQA1 antibody detected the HLA-DQA1 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-HLA-DQA1 antibody	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.
Product Categories/Family for anti-HLA-DQA1 antibody	Immunology

References	Donaldson, P.T., et al. J. Hepatol. 53(6):1049-1053(2010) Noble, J.A., et al. Diabetes 59(11):2972-2979(2010) Ferreira, R.C., et al. Nat. Genet. 42(9):777-780(2010) Ovsyannikova, I.G., et al. PLoS ONE 5 (7), E11806 (2010) : Xun, Y.H., et al. Zhonghua Shi Yan He Lin Chuang Bing Du Xue Za Zhi 23(6):430-433(2009)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	18426975
NCBI GeneID	3117
NCBI Accession #	NP_002113.2
NCBI GenBank Nucleotide #	NM_002122.3
UniProt Accession #	P01909; O19630; O19706; P01907; P01908; P04225; P04226; P05536; P79553; Q06751; Q29876; Q29994
Molecular Weight	27805
NCBI Official Full Name	HLA class II histocompatibility antigen, DQ alpha 1 chain
NCBI Official Synonym Full Names	major histocompatibility complex, class II, DQ alpha 1
NCBI Official Symbol	HLA-DQA1
NCBI Official Synonym Symbols	CD; GSE; DQ-A1; CELIAC1; HLA-DQA
NCBI Protein Information	HLA class II histocompatibility antigen, DQ alpha 1 chain
UniProt Protein Name	HLA class II histocompatibility antigen, DQ alpha 1 chain
UniProt Gene Name	HLA-DQA1
UniProt Entry Name	DQA1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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 Online datasheet: <https://www.aaabiotech.com/polyclonal/hla-dqa1-antibody-flow-cytometry-western-blot-elisa/285214>