

Mouse anti-Human, Pig HLA-DQ Monoclonal Antibody | anti-HLA-DQ antibody

HLA-DQ (MHC II) Mouse Monoclonal Antibody

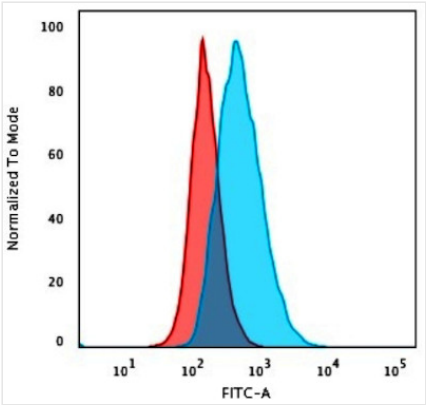
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62728	Mouse	Human, Pig	Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

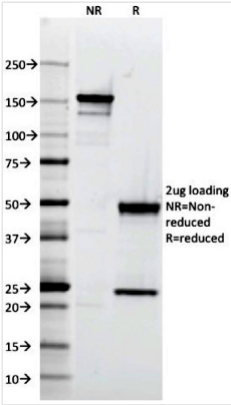
HLA-DQ; Monoclonal Antibody; HLA-DQ (MHC II) Mouse Monoclonal Antibody; CELIAC1; DC 4 alpha chain Gluten sensitive enteropathy (celiac disease) (GSE); HLA Class II DQ; HLA class II histocompatibility antigen DQ; HLA class II histocompatibility antigen DQ(1) alpha chain; HLA class II histocompatibility antigen DQ(3) alpha chain; HLA DQA1; HLA DQB; HLA DQB1; IDDM1; Leucocyte antigen DQA1; Major histocompatibility complex class II DQ alpha 1; Major histocompatibility complex class II DQ beta 1; MHC class II antigen HLA DQ beta 1; MHC class II HLA DQ alpha 1; MHC class II HLA DQ beta glycoprotein; MHC DQ beta; MHC HLA DQ alpha; anti-HLA-DQ antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Pig
Clonality	Monoclonal
Isotype	IgG2a, kappa
Clone Number	SPV-L3
Specificity	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.
Form/Format	200ug/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.
Sequence Length	255
Applicable Applications for anti-HLA-DQ antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Cellular Localization	Cell Surface
Immunogen	T4-positive CTL clone HG-38
Hu-Chromosome Location	6p21.3
Positive Control	Raji cells. Tonsil or lymph node
Preparation and Storage	Antibody with azide - store at 2 to 8°C. Non-hazardous. No MSDS required.



FCM/FACS (Flow Cytometry)
Flow Cytometric Analysis of Raji cells. HLA-DQ Mouse Monoclonal Antibody (SPV-L3) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



SDS-PAGE
SDS-PAGE Analysis Purified HLA-DQ Mouse Monoclonal Antibody (SPV-L3). Confirmation of Integrity and Purity of Antibody.

ADDITIONAL INFORMATION

References	Spits H; Keizer G; Borst J; Terhorst C; Hekman A; de Vries JE. Characterization of monoclonal antibodies against cell surface molecules associated with cytotoxic activity of natural and activated killer cells and cloned CTL lines. Hybridoma, 1983, 2(4):423-37. Spits H., Borst J., Giphon M., Coligan J., Terhorst C. and de Vries J., Eur. J. Immunol. 14, (1984). Bontrop R., Schreuder G., Mikalski E., van Miltenburg R. and Giphon M., Tissue Antigens, 27, (1986)
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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 #	P01908; O19630; O19706; P01907; P04225; P04226; P05536; P79553; Q06751; Q29876; Q29994; P01909
Molecular Weight	60kDa
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.