

Datasheet for ABIN7155591
anti-HLA-DQA1 antibody (AA 24-213) (FITC)



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Overview

Quantity:	100 µg
Target:	HLA-DQA1
Binding Specificity:	AA 24-213
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HLA-DQA1 antibody is conjugated to FITC
Application:	Please inquire

Product Details

Immunogen:	Recombinant Human HLA class II histocompatibility antigen, DQ alpha 1 chain protein (24-213AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	HLA-DQA1
Alternative Name:	HLA-DQA1 (HLA-DQA1 Products)
Background:	Background: Binds peptides derived from antigens that access the endocytic route of antigen

presenting cells (APC) and presents them on the cell surface for recognition by the CD4 T-cells. The peptide binding cleft accommodates peptides of 10-30 residues. The peptides presented by MHC class II molecules are generated mostly by degradation of proteins that access the endocytic route, where they are processed by lysosomal proteases and other hydrolases. Exogenous antigens that have been endocytosed by the APC are thus readily available for presentation via MHC II molecules, and for this reason this antigen presentation pathway is usually referred to as exogenous. As membrane proteins on their way to degradation in lysosomes as part of their normal turn-over are also contained in the endosomal/lysosomal compartments, exogenous antigens must compete with those derived from endogenous components. Autophagy is also a source of endogenous peptides, autophagosomes constitutively fuse with MHC class II loading compartments. In addition to APCs, other cells of the gastrointestinal tract, such as epithelial cells, express MHC class II molecules and CD74 and act as APCs, which is an unusual trait of the GI tract. To produce a MHC class II molecule that presents an antigen, three MHC class II molecules (heterodimers of an alpha and a beta chain) associate with a CD74 trimer in the ER to form a heterononamer. Soon after the entry of this complex into the endosomal/lysosomal system where antigen processing occurs, CD74 undergoes a sequential degradation by various proteases, including CTSS and CTSL, leaving a small fragment termed CLIP (class-II-associated invariant chain peptide). The removal of CLIP is facilitated by HLA-DM via direct binding to the alpha-beta-CLIP complex so that CLIP is released. HLA-DM stabilizes MHC class II molecules until primary high affinity antigenic peptides are bound. The MHC II molecule bound to a peptide is then transported to the cell membrane surface. In B-cells, the interaction between HLA-DM and MHC class II molecules is regulated by HLA-DO. Primary dendritic cells (DCs) also to express HLA-DO. Lysosomal microenvironment has been implicated in the regulation of antigen loading into MHC II molecules, increased acidification produces increased proteolysis and efficient peptide loading. Aliases: CD antibody, CELIAC1 antibody, DC 1 alpha chain antibody, DC alpha antibody, DC-1 alpha chain antibody, DC-alpha antibody, DC1, included antibody, DQ alpha 1 chain antibody, DQ-A1 antibody, DQ-DRW9 alpha chain antibody, DQA1_HUMAN antibody, FLJ27088 antibody, FLJ27328 antibody, Gluten-sensitive enteropathy (celiac disease) antibody, GSE antibody, HLA class II histocompatibility antigen antibody, HLA class II histocompatibility antigen, DQ alpha 1 chain antibody, HLA class II histocompatibility antigen, DQ(W3) alpha chain antibody, HLA-DCA antibody, HLA-DQA antibody, HLA-DQA1 antibody, HLA-DQA1 major histocompatibility complex, class II, DQ alpha 1 antibody, HLADC histocompatibility type antibody, Immune response antigens Hla, included antibody, leucocyte antigen DQA1 antibody, leucocyte antigen alpha chain antibody, LOC100133678 antibody, LOC100507686 antibody, LOC100509457 antibody, Major histocompatibility complex, class II, DQ alpha 1 antibody, MGC149527 antibody, MHC

Target Details

class II antigen antibody, MHC class II DQA1 antibody, MHC class II HLA-D alpha glycoprotein antibody, MHC class II HLA-DQ alpha 1 antibody, MHC class II surface glycoprotein antibody, MHC HLA-DQ alpha antibody, OTTHUMP00000029141 antibody, OTTHUMP00000176885 antibody, OTTHUMP00000178551 antibody, OTTHUMP00000178552 antibody, OTTHUMP00000233817 antibody

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

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.