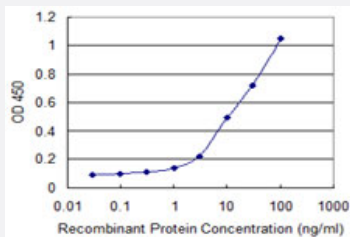


HLA-DQA1 monoclonal antibody (M01), clone 1A3

Catalog # H00003117-M01

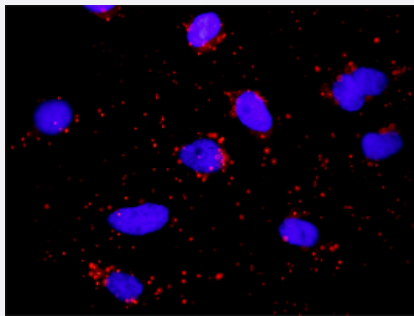
Size 100 ug

Applications



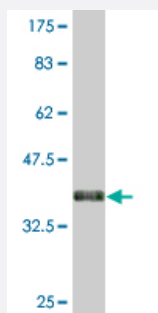
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged HLA-DQA1 is 0.3 ng/ml as a capture antibody.



In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between CD74 and HLA-DQA1. HeLa cells were stained with anti-CD74 rabbit purified polyclonal 1:1200 and anti-HLA-DQA1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



Western Blot detection against Immunogen (35.31 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant HLA-DQA1.

Immunogen	HLA-DQA1 (NP_002113.2, 24 a.a. ~ 110 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	EDIVADHVASCGVNLYQFYGPSGQYTHEFDGDEEFYVDLERKETAWRWPEFSKFGGFDPQGAL RNMAVAKHNLNIMIKRYNSTAATN
Host	Mouse
Reactivity	Human
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (35.31 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged HLA-DQA1 is 0.3 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- In situ* Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between CD74 and HLA-DQA1. HeLa cells were stained with anti-CD74 rabbit purified polyclonal 1:1200 and anti-HLA-DQA1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

Gene Info — HLA-DQA1

Entrez GeneID	3117
GeneBank Accession#	NM_002122
Protein Accession#	NP_002113.2

Gene Name	HLA-DQA1
Gene Alias	CD, CELIAC1, DQ-A1, FLJ27088, FLJ27328, GSE, HLA-DQA, MGC149527
Gene Description	major histocompatibility complex, class II, DQ alpha 1
Omim ID	146880 212750
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq]
Other Designations	Gluten-sensitive enteropathy (celiac disease) MHC HLA-DQ alpha MHC class II HLA-D alpha glycoprotein MHC class II HLA-DQ-alpha-1 MHC class II antigen MHC class II surface glycoprotein OTTHUMP00000029141 OTTHUMP00000176885 OTTHUMP00000178551 OTTHUMP0000017

Pathway

- [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](#)

Disease

- [Abortion](#)

- [Acute Disease](#)
- [Addison Disease](#)
- [Adenocarcinoma](#)
- [Adrenal hyperplasia](#)
- [Adrenal Insufficiency](#)
- [Alopecia](#)
- [Alopecia Areata](#)
- [Antiphospholipid Syndrome](#)
- [Aortic Aneurysm](#)
- [Arthritis](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Atrophy](#)
- [Autoimmune Diseases](#)
- [Autoimmune polyglandular syndrome](#)
- [Berylliosis](#)
- [Biliary Atresia](#)
- [Bipolar Disorder](#)
- [Birth Weight](#)
- [Blood Group Incompatibility](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchiectasis](#)
- [Calcinosis](#)
- [Carcinoma](#)
- [Cardiomyopathy](#)

- [Cardiovascular Diseases](#)
- [Cataplexy](#)
- [Celiac Disease](#)
- [Cerebral Infarction](#)
- [Cerebrovascular Accident](#)
- [Chagas Disease](#)
- [Chlamydia Infections](#)
- [Cholangitis](#)
- [Cholestasis](#)
- [Chronic Disease](#)
- [Colitis](#)
- [Colorectal Neoplasms](#)
- [Cough](#)
- [Crohn Disease](#)
- [Cryoglobulinemia](#)
- [Cytomegalovirus Infections](#)
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- [Dermatomyositis](#)
- [Diabetes](#)
- [Diabetes Mellitus](#)
- [Diabetic Angiopathies](#)
- [Diabetic Ketoacidosis](#)
- [Diabetic Nephropathies](#)
- [Diabetic Retinopathy](#)
- [Diarrhea](#)
- [Disease Progression](#)

- [Disease Susceptibility](#)
- [Diseases in Twins](#)
- [Drug Eruptions](#)
- [Drug Hypersensitivity](#)
- [Duodenal Ulcer](#)
- [Dyspepsia](#)
- [Eczema](#)
- [Edema](#)
- [Encephalomyelitis](#)
- [Endometriosis](#)
- [Endometritis](#)
- [Eosinophilia-Myalgia Syndrome](#)
- [Eye Infections](#)
- [Fallopian Tube Diseases](#)
- [Fatigue Syndrome](#)
- [Gastritis](#)
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- [Guillain-Barre Syndrome](#)

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- [Hepatitis C](#)
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- [Melanoma](#)
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- [Purpura](#)

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- [Rheumatic Heart Disease](#)
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- [Schistosomiasis](#)
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- [Seminoma](#)
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- [Thymus Neoplasms](#)
- [Thyroid Diseases](#)
- [Thyroid Neoplasms](#)

- [Thyroiditis](#)
- [Tuberculosis](#)
- [Tumor Virus Infections](#)
- [Urticaria](#)
- [Uterine Cervical Neoplasms](#)
- [Uveitis](#)
- [Viremia](#)
- [Vitiligo](#)
- [Warts](#)