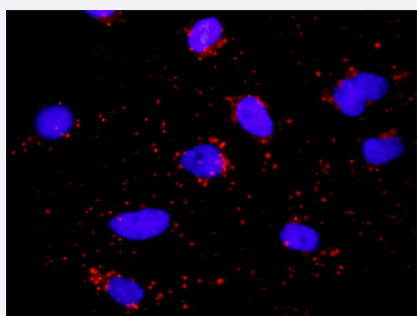


CD74 & HLA-DQA1 Protein Protein Interaction Antibody Pair

Catalog # DI0228

Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between CD74 and HLA-DQA1. HeLa cells were stained with anti-CD74 rabbit purified polyclonal antibody 1:1200 and anti-HLA-DQA1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University.

Specification

Product Description

This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the CD74 protein, and the other against the HLA-DQA1 protein for use in [in situ Proximity Ligation Assay](#). [See Publication Reference below](#).

Reactivity

Human

Quality Control Testing

Protein protein interaction immunofluorescence result.
Representative image of Proximity Ligation Assay of protein-protein interactions between CD74 and HLA-DQA1. HeLa cells were stained with anti-CD74 rabbit purified polyclonal antibody 1:1200 and anti-HLA-DQA1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University.

Supplied Product

Antibody pair set content:
1. CD74 rabbit purified polyclonal antibody (100 ug)
2. HLA-DQA1 mouse monoclonal antibody (40 ug)
*Reagents are sufficient for at least 30-50 assays using recommended protocols.

Storage Instruction

Store reagents of the antibody pair set at -20°C or lower. Please aliquot to avoid repeated freeze-thaw cycle. Reagents should be returned to -20°C storage immediately after use.

Applications

- *In situ* Proximity Ligation Assay (Cell)

Gene Info — CD74

Entrez GeneID	972
Gene Name	CD74
Gene Alias	DHLA3, HLADG, Ia-GAMMA
Gene Description	CD74 molecule, major histocompatibility complex, class II invariant chain
Omim ID	142790
Gene Ontology	Hyperlink
Gene Summary	major histocompatibility complex
Other Designations	CD74 antigen CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated) HLA-DR-gamma Ia-associated invariant chain MHC HLA-DR gamma chain gamma chain of class II antigens

Gene Info — HLA-DQA1

Entrez GeneID	3117
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](#)
- [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](#)
- [Cardiovascular Diseases](#)
- [Cataplexy](#)
- [Celiac Disease](#)

- [Celiac Disease](#)
- [Cerebral Infarction](#)
- [Cerebrovascular Accident](#)
- [Chagas Disease](#)
- [Chlamydia Infections](#)
- [Cholangitis](#)
- [Cholestasis](#)
- [Chronic Disease](#)
- [Colitis](#)
- [Colorectal Neoplasms](#)
- [Cough](#)
- [Crohn Disease](#)
- [Cryoglobulinemia](#)
- [Cytomegalovirus Infections](#)
- [Dermatitis](#)
- [Dermatomyositis](#)
- [Diabetes](#)
- [Diabetes Mellitus](#)
- [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](#)
- [Edema](#)
- [Encephalomyelitis](#)
- [Endometriosis](#)
- [Endometritis](#)
- [Eosinophilia-Myalgia Syndrome](#)
- [Eye Infections](#)
- [Fallopian Tube Diseases](#)
- [Fatigue Syndrome](#)
- [Gastritis](#)
- [Gastroenteritis](#)
- [Gastrointestinal Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Glomerulonephritis](#)
- [Goiter](#)
- [Gonorrhea](#)
- [Graft vs Host Disease](#)
- [Graves Disease](#)
- [Growth Disorders](#)
- [Guillain-Barre Syndrome](#)

- [Hashimoto Disease](#)
- [Helicobacter Infections](#)
- [Hematologic Neoplasms](#)
- [Hepatitis](#)
- [Hepatitis B](#)
- [Hepatitis C](#)
- [Histoplasmosis](#)
- [HIV Infections](#)
- [HIV Seropositivity](#)
- [Hyperplasia](#)
- [Hypersensitivity](#)
- [Hypertension](#)
- [IgA Deficiency](#)
- [Infection](#)
- [Infertility](#)
- [Inflammation](#)
- [Inflammatory Bowel Diseases](#)
- [Jaundice](#)
- [Joint Diseases](#)
- [Keloid](#)
- [Kidney Failure](#)
- [Kidney Neoplasms](#)
- [Lambert-Eaton Myasthenic Syndrome](#)
- [Leishmaniasis](#)
- [Leprosy](#)
- [Leukemia](#)

- [Liver Cirrhosis](#)
- [Liver Failure](#)
- [Liver Neoplasms](#)
- [Lung carcinoma](#)
- [Lung Diseases](#)
- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)
- [Lupus Nephritis](#)
- [Lymphoma](#)
- [Malaria](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Metaplasia](#)
- [Multiple Sclerosis](#)
- [Myasthenia Gravis](#)
- [Myocardial Infarction](#)
- [Myositis](#)
- [Narcolepsy](#)
- [Nasal Polyps](#)
- [Nasopharyngeal Neoplasms](#)
- [Neoplasm Invasiveness](#)
- [Neoplasms](#)
- [Neovascularization](#)
- [Neuromyelitis Optica](#)
- [Neutropenia](#)
- [Obesity](#)

- [Occupational Diseases](#)
- [Ophthalmia](#)
- [Optic Neuritis](#)
- [Osteoarthritis](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Papilloma](#)
- [Papillomavirus Infections](#)
- [Parasitemia](#)
- [Parkinson disease](#)
- [Pelvic Inflammatory Disease](#)
- [Pemphigoid](#)
- [Pemphigus](#)
- [Phenylketonuria](#)
- [Philadelphia Chromosome](#)
- [Polyendocrinopathies](#)
- [Polymyositis](#)
- [Prediabetic State](#)
- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)
- [Pregnancy in Diabetics](#)
- [Psoriasis](#)
- [Puerperal Disorders](#)
- [Purpura](#)
- [Recurrence](#)

- [Respiratory Hypersensitivity](#)
- [Respiratory Tract Infections](#)
- [Respiratory Tract Neoplasms](#)
- [Rheumatic Diseases](#)
- [Rheumatic Fever](#)
- [Rheumatic Heart Disease](#)
- [Rhinitis](#)
- [Sarcoidosis](#)
- [Schistosomiasis](#)
- [Schistosomiasis japonica](#)
- [Schizophrenia](#)
- [Scleroderma](#)
- [Seminoma](#)
- [Severe Acute Respiratory Syndrome](#)
- [Skin Neoplasms](#)
- [Spondylarthritis](#)
- [Spondylitis](#)
- [Stomach Neoplasms](#)
- [Stomach Ulcer](#)
- [Substance Abuse](#)
- [Thromboembolism](#)
- [Thymoma](#)
- [Thymus Neoplasms](#)
- [Thyroid Diseases](#)
- [Thyroid Neoplasms](#)
- [Thyroiditis](#)

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