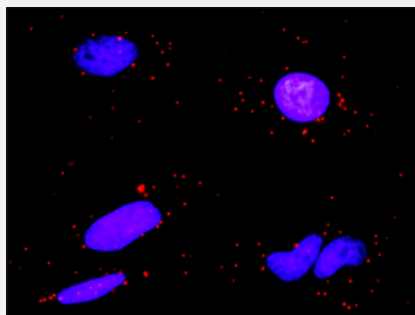


CD86 & CTLA4 Protein Protein Interaction Antibody Pair

Catalog # DI0136

Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between CD86 and CTLA4. HeLa cells were stained with anti-CD86 rabbit purified polyclonal antibody 1:1200 and anti-CTLA4 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 CD86 protein, and the other against the CTLA4 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 CD86 and CTLA4. HeLa cells were stained with anti-CD86 rabbit purified polyclonal antibody 1:1200 and anti-CTLA4 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. CD86 rabbit purified polyclonal antibody (100 ug)
2. CTLA4 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 — CD86

Entrez GeneID	942
Gene Name	CD86
Gene Alias	B7-2, B70, CD28LG2, LAB72, MGC34413
Gene Description	CD86 molecule
Omim ID	601020
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a type I membrane protein that is a member of the immunoglobulin superfamily. This protein is expressed by antigen-presenting cells, and it is the ligand for two proteins at the cell surface of T cells, CD28 antigen and cytotoxic T-lymphocyte-associated protein 4. Binding of this protein with CD28 antigen is a costimulatory signal for activation of the T-cell. Binding of this protein with cytotoxic T-lymphocyte-associated protein 4 negatively regulates T-cell activation and diminishes the immune response. Alternative splicing results in two transcript variants encoding different isoforms. Additional transcript variants have been described, but their full-length sequence has not been determined. [provided by RefSeq]
Other Designations	B-lymphocyte activation antigen B7-2 B7-2 antigen CD28 antigen ligand 2 CD86 antigen CD86 antigen (CD28 antigen ligand 2, B7-2 antigen) CTLA-4 counter-receptor B7.2

Gene Info — CTLA4

Entrez GeneID	1493
Gene Name	CTLA4
Gene Alias	CD152, CELIAC3, CTLA-4, GSE, IDDM12
Gene Description	cytotoxic T-lymphocyte-associated protein 4
Omim ID	123890 140300 275000 601388 609755
Gene Ontology	Hyperlink

Gene Summary

This gene is a member of the immunoglobulin superfamily and encodes a protein which transmits an inhibitory signal to T cells. The protein contains a V domain, a transmembrane domain, and a cytoplasmic tail. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. The membrane-bound isoform functions as a homodimer interconnected by a disulfide bond, while the soluble isoform functions as a monomer. Mutations in this gene have been associated with insulin-dependent diabetes mellitus, Graves disease, Hashimoto thyroiditis, celiac disease, systemic lupus erythematosus, thyroid-associated orbitopathy, and other autoimmune diseases. [provided by RefSeq]

Other Designations

OTTHUMP00000163781|cytotoxic T-lymphocyte-associated antigen 4|cytotoxic T-lymphocyte-associated serine esterase-4|ligand and transmembrane spliced cytotoxic T lymphocyte associated antigen 4

Pathway

- [Allograft rejection](#)
- [Autoimmune thyroid disease](#)
- [Autoimmune thyroid disease](#)
- [Cell adhesion molecules \(CAMs\)](#)
- [Cell adhesion molecules \(CAMs\)](#)
- [Graft-versus-host disease](#)
- [Systemic lupus erythematosus](#)
- [T cell receptor signaling pathway](#)
- [Toll-like receptor signaling pathway](#)
- [Type I diabetes mellitus](#)

Disease

- [Abortion](#)
- [Abruptio Placentae](#)
- [Acquired Immunodeficiency Syndrome](#)
- [Acute Disease](#)
- [Acute Disease](#)

- [Addison Disease](#)
- [Adenocarcinoma](#)
- [Adenoma](#)
- [Alcoholism](#)
- [Alopecia Areata](#)
- [Anemia](#)
- [Arthritis](#)
- [Arthritis](#)
- [Asthma](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Atherosclerosis](#)
- [Autoimmune Diseases](#)
- [Autoimmune polyglandular syndrome](#)
- [Behcet Syndrome](#)
- [Bipolar Disorder](#)
- [Brain Ischemia](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchial Hyperreactivity](#)
- [Bronchiolitis](#)
- [Bronchiolitis](#)
- [Bronchitis](#)
- [Calcinosis](#)
- [Calculi](#)
- [Carcinoma](#)

- [Cardiomyopathy](#)
- [Cardiovascular Diseases](#)
- [Cardiovascular Diseases](#)
- [Celiac Disease](#)
- [Chagas Disease](#)
- [Chlamydia Infections](#)
- [Cholangitis](#)
- [Choriocarcinoma](#)
- [Chronic Disease](#)
- [Chronic Disease](#)
- [Colitis](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Common Variable Immunodeficiency](#)
- [Communicable Diseases](#)
- [Connective Tissue Diseases](#)
- [Coronary Artery Disease](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Crohn Disease](#)
- [Deltaretrovirus Infections](#)
- [Dengue](#)
- [Dengue Hemorrhagic Fever](#)
- [Depressive Disorder](#)

- [Dermatitis](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetes Mellitus](#)
- [Diabetic Angiopathies](#)
- [Diabetic Ketoacidosis](#)
- [Diabetic Nephropathies](#)
- [Diabetic Neuropathies](#)
- [Diabetic Retinopathy](#)
- [Disease Progression](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Disorders of Excessive Somnolence](#)
- [Drug Eruptions](#)
- [Drug Eruptions](#)
- [Eczema](#)
- [Edema](#)
- [Edema](#)
- [Endocrine System Diseases](#)
- [Endometriosis](#)
- [Eosinophilia](#)
- [Epstein-Barr Virus Infections](#)
- [Erythema Nodosum](#)
- [Esophageal Neoplasms](#)
- [Eye Diseases](#)
- [Fatty Liver](#)

- [Fetal Diseases](#)
- [Gender Identity](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Graft vs Host Disease](#)
- [Graves Disease](#)
- [Graves Ophthalmopathy](#)
- [Hashimoto Disease](#)
- [Helicobacter Infections](#)
- [Hemophilia A](#)
- [Hepatitis](#)
- [Hepatitis B](#)
- [Hepatitis B](#)
- [Hepatitis C](#)
- [Hepatitis C](#)
- [HIV Infections](#)
- [Hydatidiform Mole](#)
- [Hypersensitivity](#)
- [Hypersensitivity](#)
- [Hypertension](#)
- [Hypoparathyroidism](#)
- [Hypothyroidism](#)
- [IgA Deficiency](#)
- [Infant](#)
- [Infant](#)
- [Infection](#)

- [Inflammation](#)
- [Inflammatory Bowel Diseases](#)
- [Iridocyclitis](#)
- [Kidney Failure](#)
- [Kidney Failure](#)
- [Kidney Neoplasms](#)
- [Leg Dermatoses](#)
- [Leishmaniasis](#)
- [Leukemia](#)
- [Liver Cirrhosis](#)
- [Liver Diseases](#)
- [Liver Neoplasms](#)
- [Lung Neoplasms](#)
- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)
- [Lupus Erythematosus](#)
- [Lymphocytosis](#)
- [Lymphohistiocytosis](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Malignant melanoma](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Melanoma](#)
- [Meniere Disease](#)
- [Migraine Disorders](#)

- [Migraine with Aura](#)
- [Migraine without Aura](#)
- [Mouth Neoplasms](#)
- [Multiple Myeloma](#)
- [Multiple Sclerosis](#)
- [Multiple Sclerosis](#)
- [Musculoskeletal Diseases](#)
- [Myasthenia Gravis](#)
- [Myocardial Infarction](#)
- [Myxedema](#)
- [Nasopharyngeal Neoplasms](#)
- [Neoplasm Metastasis](#)
- [Neoplasms](#)
- [Obesity](#)
- [Oral Submucous Fibrosis](#)
- [Osteoporosis](#)
- [Pancreatitis](#)
- [Papillomavirus Infections](#)
- [Papillomavirus Infections](#)
- [Paraproteinemias](#)
- [Pemphigus](#)
- [Pemphigus](#)
- [Periodontitis](#)
- [Polyendocrinopathies](#)
- [Polyradiculoneuropathy](#)
- [Postpartum Thyroiditis](#)

- [Prediabetic State](#)
- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Prenatal Exposure Delayed Effects](#)
- [Proteinuria](#)
- [Psoriasis](#)
- [Pulmonary Disease](#)
- [Pulmonary Disease](#)
- [Pulmonary Fibrosis](#)
- [Purpura](#)
- [Recurrence](#)
- [Recurrence](#)
- [Respiratory Syncytial Virus Infections](#)
- [Respiratory Syncytial Virus Infections](#)
- [Rheumatic Heart Disease](#)
- [Rhinitis](#)
- [Sarcoidosis](#)
- [Sarcoidosis](#)
- [Schizophrenia](#)
- [Scleroderma](#)
- [Scleroderma](#)
- [Skin Diseases](#)
- [Skin Neoplasms](#)
- [Spondylarthropathies](#)
- [Spondylitis](#)

- [Stomach Neoplasms](#)
- [Stroke](#)
- [Sunburn](#)
- [Thymoma](#)
- [Thymus Hyperplasia](#)
- [Thymus Neoplasms](#)
- [Thyroid Diseases](#)
- [Thyroiditis](#)
- [Trachoma](#)
- [Tuberculosis](#)
- [Urinary Bladder Neoplasms](#)
- [Urinary Bladder Neoplasms](#)
- [Urologic Diseases](#)
- [Uterine Cervical Neoplasms](#)
- [Uterine Cervical Neoplasms](#)
- [Uveitis](#)
- [Uveomeningoencephalitic Syndrome](#)
- [Vasculitis](#)
- [Vitiligo](#)
- [Wegener Granulomatosis](#)
- [Werner syndrome](#)
- [Werner syndrome](#)