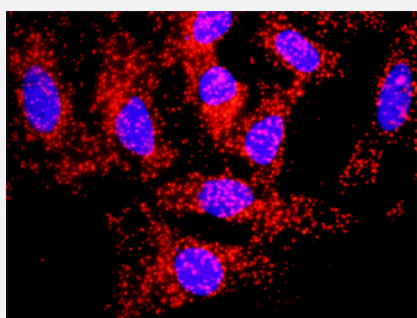


TGFB1 & APP Protein Protein Interaction Antibody Pair

Catalog # DI0054

Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between TGFB1 and APP. HeLa cells were stained with anti-TGFB1 rabbit purified polyclonal antibody 1:1200 and anti-APP 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 TGFB1 protein, and the other against the APP 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 TGFB1 and APP. HeLa cells were stained with anti-TGFB1 rabbit purified polyclonal antibody 1:1200 and anti-APP 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. TGFB1 rabbit purified polyclonal antibody (100 ug)
2. APP 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 — APP

Entrez GeneID	351
Gene Name	APP
Gene Alias	AAA, ABETA, ABPP, AD1, APPI, CTFgamma, CVAP, PN2
Gene Description	amyloid beta (A4) precursor protein
Omim ID	104760 605714
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a cell surface receptor and transmembrane precursor protein that is cleaved by secretases to form a number of peptides. Some of these peptides are secreted and can bind to the acetyltransferase complex APBB1/TIP60 to promote transcriptional activation, while others form the protein basis of the amyloid plaques found in the brains of patients with Alzheimer disease. Mutations in this gene have been implicated in autosomal dominant Alzheimer disease and cerebral amyloid angiopathy (cerebral amyloid angiopathy). Multiple transcript variants encoding several different isoforms have been found for this gene. [provided by RefSeq]
Other Designations	A4 amyloid protein amyloid beta A4 protein amyloid-beta protein beta-amyloid peptide cerebral vascular amyloid peptide peptidase nexin-II protease nexin-II

Gene Info — TGFB1

Entrez GeneID	7040
Gene Name	TGFB1
Gene Alias	CED, DPD1, TGFB, TGFbeta
Gene Description	transforming growth factor, beta 1
Omim ID	131300 190180 219700
Gene Ontology	Hyperlink
Gene Summary	TGFB is a multifunctional peptide that controls proliferation, differentiation, and other functions in many cell types. TGFB acts synergistically with TGFA (MIM 190170) in inducing transformation. It also acts as a negative autocrine growth factor. Dysregulation of TGFB activation and signaling may result in apoptosis. Many cells synthesize TGFB and almost all of them have specific receptors for this peptide. TGFB1, TGFB2 (MIM 190220), and TGFB3 (MIM 190230) all function through the same receptor signaling systems.[supplied by OMIM]

Other Designations

TGF-beta 1 protein|diaphyseal dysplasia 1, progressive|transforming growth factor-beta 1

Pathway

- [Cell cycle](#)
- [Chronic myeloid leukemia](#)
- [Colorectal cancer](#)
- [Cytokine-cytokine receptor interaction](#)
- [Hypertrophic cardiomyopathy \(HCM\)](#)
- [MAPK signaling pathway](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)
- [Renal cell carcinoma](#)
- [TGF-beta signaling pathway](#)

Disease

- [Abortion](#)
- [Abscess](#)
- [Acute Disease](#)
- [Adenocarcinoma](#)
- [Adenoma](#)
- [Adenomatous Polyps](#)
- [Adrenal Gland Neoplasms](#)

- [Aggressive Periodontitis](#)
- [Albuminuria](#)
- [Alcoholism](#)
- [alpha 1-Antitrypsin Deficiency](#)
- [Alpha-1-antitrypsin deficiency](#)
- [Alveolar Bone Loss](#)
- [Alveolitis](#)
- [Alzheimer disease](#)
- [Alzheimer disease](#)
- [Amyloidosis](#)
- [Amyotrophic lateral sclerosis](#)
- [Anemia](#)
- [Angina Pectoris](#)
- [Angioedema](#)
- [Anodontia](#)
- [Anoxia](#)
- [Aortic Aneurysm](#)
- [Aortic Valve Stenosis](#)
- [Arthritis](#)
- [Asbestosis](#)
- [Asthma](#)
- [Ataxia telangiectasia](#)
- [Atherosclerosis](#)
- [Atrial Fibrillation](#)
- [Atrophy](#)
- [Autistic Disorder](#)

- [Autoimmune Diseases](#)
- [Behcet Syndrome](#)
- [Berylliosis](#)
- [Biliary Tract Neoplasms](#)
- [Bone Diseases](#)
- [Bone Marrow Diseases](#)
- [Brain Ischemia](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchial Hyperreactivity](#)
- [Bronchiolitis](#)
- [Bronchiolitis Obliterans](#)
- [Bronchopulmonary Dysplasia](#)
- [Brucellosis](#)
- [Cadaver](#)
- [Carcinoma](#)
- [Cardiomyopathy](#)
- [Cardiovascular Diseases](#)
- [Cardiovascular Diseases](#)
- [Carotid Stenosis](#)
- [Celiac Disease](#)
- [Celiac Disease](#)
- [Cellulitis](#)
- [Cerebral Amyloid Angiopathy](#)
- [Cerebral Hemorrhage](#)
- [Cerebrovascular Accident](#)

- [Cerebrovascular Disorders](#)
- [Cervical Intraepithelial Neoplasia](#)
- [Chagas Disease](#)
- [Chlamydia Infections](#)
- [Chorioamnionitis](#)
- [Chronic Disease](#)
- [Chronic Periodontitis](#)
- [Cicatrix](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Clonorchiasis](#)
- [Cognition](#)
- [Cognition Disorders](#)
- [Colitis](#)
- [Colonic Neoplasms](#)
- [Colonic Polyps](#)
- [Colorectal Neoplasms](#)
- [Common Variable Immunodeficiency](#)
- [Connective Tissue Diseases](#)
- [Constriction](#)
- [Corneal Dystrophies](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Critical Illness](#)
- [Crohn Disease](#)
- [Cystic fibrosis](#)

- [Death](#)
- [Delayed Graft Function](#)
- [Dementia](#)
- [Dementia](#)
- [Dengue Hemorrhagic Fever](#)
- [Depressive Disorder](#)
- [Dermatitis](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Diabetic Retinopathy](#)
- [Disease Progression](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Disease Susceptibility](#)
- [Down Syndrome](#)
- [Drug Hypersensitivity](#)
- [Drug Toxicity](#)
- [Ductus Arteriosus](#)
- [Duodenal Ulcer](#)
- [Eclampsia](#)
- [Eczema](#)
- [Edema](#)
- [Edema](#)
- [Embryo Loss](#)

- [Emphysema](#)
- [Endometrial Neoplasms](#)
- [Endometriosis](#)
- [Epstein-Barr Virus Infections](#)
- [Esophageal Neoplasms](#)
- [Exanthema](#)
- [Exfoliation Syndrome](#)
- [Fatigue Syndrome](#)
- [Fatty Liver](#)
- [Fetal Diseases](#)
- [Fetal Membranes](#)
- [Fibrosis](#)
- [Food Hypersensitivity](#)
- [Fractures](#)
- [Gallbladder Neoplasms](#)
- [Gastritis](#)
- [Gastrointestinal Hemorrhage](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Gestational Trophoblastic Neoplasms](#)
- [Giardiasis](#)
- [Gingival Overgrowth](#)
- [Glaucoma](#)
- [Glomerulonephritis](#)
- [Glomerulosclerosis](#)
- [Glucosephosphate Dehydrogenase Deficiency](#)

- [Gout](#)
- [Graft vs Host Disease](#)
- [Graves Disease](#)
- [Graves Ophthalmopathy](#)
- [Hashimoto Disease](#)
- [Head and Neck Neoplasms](#)
- [Headache](#)
- [Heart Block](#)
- [Heart Diseases](#)
- [Heart Failure](#)
- [Heart Valve Diseases](#)
- [Helicobacter Infections](#)
- [Hematologic Diseases](#)
- [Hemochromatosis](#)
- [Hepatitis](#)
- [Hepatitis B](#)
- [Hepatitis C](#)
- [Hepatitis D](#)
- [Hereditary hemochromatosis](#)
- [HIV Infections](#)
- [Hypercapnia](#)
- [Hypercholesterolemia](#)
- [Hyperglycemia](#)
- [Hyperlipidemias](#)
- [Hyperparathyroidism](#)
- [Hyperplasia](#)

- [Hypersensitivity](#)
- [Hypertension](#)
- [Hypertrophy](#)
- [Hyperuricemia](#)
- [Idiopathic Pulmonary Fibrosis](#)
- [Immune System Diseases](#)
- [Infant](#)
- [Infection](#)
- [Infertility](#)
- [Inflammation](#)
- [Inflammatory Bowel Diseases](#)
- [Insulin Resistance](#)
- [Intervertebral Disk Displacement](#)
- [Intracranial Aneurysm](#)
- [Irritable Bowel Syndrome](#)
- [Keloid](#)
- [Kidney Diseases](#)
- [Kidney Failure](#)
- [Kidney Neoplasms](#)
- [Laryngeal Neoplasms](#)
- [Leprosy](#)
- [Leptospirosis](#)
- [Leukemia](#)
- [Lichen Planus](#)
- [Liver Cirrhosis](#)

- [Liver Diseases](#)
- [Liver Failure](#)
- [Liver Neoplasms](#)
- [Low Back Pain](#)
- [Lung carcinoma](#)
- [Lung Diseases](#)
- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)
- [Lupus Nephritis](#)
- [Lymphatic Metastasis](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Macular Degeneration](#)
- [Malaria](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Mental Disorders](#)
- [Mental Status Schedule](#)
- [Mesothelioma](#)
- [Metabolic Diseases](#)
- [Metabolic Syndrome X](#)
- [Metaplasia](#)
- [Migraine Disorders](#)
- [Mitral Valve Insufficiency](#)

- [Mitral Valve Prolapse](#)
- [Mitral Valve Stenosis](#)
- [Mouth Neoplasms](#)
- [Multiple Sclerosis](#)
- [Multiple System Atrophy](#)
- [Musculoskeletal Diseases](#)
- [Myelodysplastic Syndromes](#)
- [Myocardial Infarction](#)
- [Myocardial Ischemia](#)
- [Myopia](#)
- [Nasopharyngeal Neoplasms](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Nephritis](#)
- [Nephrotic Syndrome](#)
- [Neurodegenerative Diseases](#)
- [Neuropsychological Tests](#)
- [Neuropsychological Tests](#)
- [Neutropenia](#)
- [Obesity](#)
- [Obstetric Labor](#)
- [Oral Submucous Fibrosis](#)
- [Oropharyngeal Neoplasms](#)
- [Ossification of Posterior Longitudinal Ligament](#)
- [Osteoarthritis](#)

- [Osteolysis](#)
- [Osteoporosis](#)
- [Otitis Media](#)
- [Otosclerosis](#)
- [Ovarian cancer](#)
- [Ovarian Diseases](#)
- [Ovarian Failure](#)
- [Ovarian Neoplasms](#)
- [Pain](#)
- [Pancreatitis](#)
- [Papillomavirus Infections](#)
- [Paraproteinemias](#)
- [Parvoviridae Infections](#)
- [Pelvic Pain](#)
- [Pemphigus](#)
- [Penile Induration](#)
- [Peptic Ulcer](#)
- [Periodontal Attachment Loss](#)
- [Periodontal Diseases](#)
- [Periodontal Pocket](#)
- [Periodontitis](#)
- [Pharyngeal Neoplasms](#)
- [Pneumoconiosis](#)
- [Polyarteritis Nodosa](#)
- [Polycystic Kidney](#)
- [Polycystic kidney disease](#)

- [Polycystic Ovary Syndrome](#)
- [Postoperative Complications](#)
- [Precancerous Conditions](#)
- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Prenatal Exposure Delayed Effects](#)
- [Prostate cancer](#)
- [Prostatic Hyperplasia](#)
- [Prostatic Neoplasms](#)
- [Prostatitis](#)
- [Prosthesis Failure](#)
- [Pseudomonas Infections](#)
- [Psoriasis](#)
- [Psychiatric Status Rating Scales](#)
- [Pterygium](#)
- [Puberty](#)
- [Pulmonary Disease](#)
- [Pulmonary Emphysema](#)
- [Pulmonary Fibrosis](#)
- [Purpura](#)
- [Q Fever](#)
- [Radiation Injuries](#)
- [Radiation Pneumonitis](#)
- [Radius Fractures](#)
- [Rectal Neoplasms](#)

- [Recurrence](#)
- [Recurrence](#)
- [Reflex Sympathetic Dystrophy](#)
- [Renal Insufficiency](#)
- [Reperfusion Injury](#)
- [Respiratory Hypersensitivity](#)
- [Respiratory Sounds](#)
- [Respiratory Syncytial Virus Infections](#)
- [Respiratory Tract Infections](#)
- [Retinal Detachment](#)
- [Retinopathy of Prematurity](#)
- [Rheumatic Heart Disease](#)
- [Rhinitis](#)
- [Sarcoidosis](#)
- [Scleroderma](#)
- [Seminoma](#)
- [Sepsis](#)
- [Shock](#)
- [Silicosis](#)
- [Sinusitis](#)
- [Skin Diseases](#)
- [Skin Neoplasms](#)
- [Skin Ulcer](#)
- [Spinal Fractures](#)
- [Spinal Osteophytosis](#)

- [Spondylitis](#)
- [Stomach Neoplasms](#)
- [Stomach Ulcer](#)
- [Stroke](#)
- [Substance Withdrawal Syndrome](#)
- [Sudden Infant Death](#)
- [Syndrome](#)
- [Systemic Vasculitis](#)
- [Testicular Neoplasms](#)
- [Thoracic Neoplasms](#)
- [Thrombophilia](#)
- [Thrombosis](#)
- [Thyroiditis](#)
- [Tobacco Use Disorder](#)
- [Tobacco Use Disorder](#)
- [Tourette Syndrome](#)
- [Trachoma](#)
- [Tuberculosis](#)
- [Urinary Bladder Neoplasms](#)
- [Urinary Tract Infections](#)
- [Urination Disorders](#)
- [Urogenital Abnormalities](#)
- [Urticaria](#)
- [Uterine Cervical Incompetence](#)
- [Uterine Cervical Neoplasms](#)
- [Ventricular Dysfunction](#)

- [Vesico-Ureteral Reflux](#)
- [Viremia](#)
- [Vitreoretinopathy](#)
- [Wegener Granulomatosis](#)
- [Werner syndrome](#)
- [Wounds and Injuries](#)