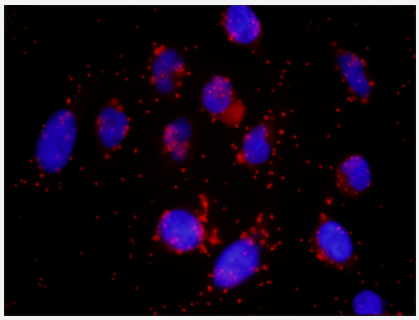
PDGFRA(phospho Y572) & PDGFRA Protein Phosphorylation Antibody Pair

Catalog # DP0013 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein phosphorylation. HeLa cells were stained with dual recognition antibody pair set, rabbit polyclonal antibody 1:1200 and mouse monoclonal antibody 1:50. Each red dot represents one single phosphorylated protein. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University.

Specification

Product Description	This protein phosphorylation antibody pair set comes with two antibodies, one against the PDGFRA protein, and the other against the specific Y572 phosphorylated site of PDGFRA for use in *in situ* Proximity Ligation Assay. See Publication Reference below.
Reactivity	Human
Quality Control Testing	Dual recognition immunofluorescence result. Representative image of Proximity Ligation Assay of protein phosphorylation. HeLa cells were stained with dual recognition antibody pair set, rabbit polyclonal antibody 1:1200 and mouse monoclonal antibody 1:50. Each red dot represents one single phosphorylated protein. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University.
Supplied Products	Antibody pair set content: 1. Phospho-PDGFRA Y572 rabbit polyclonal antibody (20 ul) In PBS (0.09% (w/v) sodium azide) 2. PDGFRA mouse monoclonal antibody (40 ug) In 1x PBS, pH 7.2 *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.

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Applications

- *In situ* Proximity Ligation Assay (Cell)

Gene Info — PDGFRA

Entrez GeneID	5156
Gene Name	PDGFRA
Gene Alias	CD140A, MGC74795, PDGFR2, Rhe-PDGFRA
Gene Description	platelet-derived growth factor receptor, alpha polypeptide
Omim ID	173490 606764 607685
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a cell surface tyrosine kinase receptor for members of the platelet-derived gro wth factor family. These growth factors are mitogens for cells of mesenchymal origin. The identity of the growth factor bound to a receptor monomer determines whether the functional receptor is a homodimer or a heterodimer, composed of both platelet-derived growth factor receptor alpha and beta polypeptides. Studies in knockout mice, where homozygosity is lethal, indicate that the alpha form of the platelet-derived growth factor receptor is particularly important for kidney development since mice heterozygous for the receptor exhibit defective kidney phenotypes. [provided by RefSe q
Other Designations	FIP1L1/PDGFRA fusion protein|platelet-derived growth factor receptor alpha|rearranged-in-hyper eosinophilia-platelet derived growth factor receptor alpha fusion protein

Publication Reference

- Endothelial-secreted Endocan activates PDGFRA and regulates vascularity and spatial phenotype in glioblastoma.

  Soniya Bastola, Marat S Pavlyukov, Neel Sharma, Yasmin Ghochani, Mayu A Nakano, Sree Deepthi Muthukrishnan, Sang Yul Yu, Min Soo Kim, Alireza Sohrabi, Natalia P Biscola, Daisuke Yamashita, Ksenia S Anufrieva, Tatyana F Kovalenko, Grace Jung, Tomas Ganz, Beatrice O'Brien, Riki Kawaguchi, Yue Qin, Stephanie K Seidlits, Alma L Burlingame, Juan A Oses-Prieto, Leif A Havton, Steven A Goldman, Anita B Hjelmeland, Ichiro Nakano, Harley I Kornblum.

  Nature Communications 2025 Jan; 16(1):471.

  Application: PLA, Human, Patient-derived 1079 glioblastoma cells

Pathway

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- Calcium signaling pathway
- Colorectal cancer
- Cytokine-cytokine receptor interaction
- Endocytosis
- Focal adhesion
- Gap junction
- Glioma
- MAPK signaling pathway
- Melanoma
- Pathways in cancer
- Prostate cancer
- Regulation of actin cytoskeleton

Disease

- Acute Disease
- Adenocarcinoma
- Alzheimer disease
- Aneuploidy
- Asthma
- Brain Neoplasms
- Carcinoma
- Cardiovascular Diseases
- Cleft Lip
- Cleft Palate
- Coronary Artery Disease
- Coronary Disease

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- Diabetes Complications
- Diabetes Mellitus
- Disease Progression
- Edema
- Esophageal Neoplasms
- Gastrointestinal Stromal Tumors
- Genetic Predisposition to Disease
- Glioblastoma
- Hyperparathyroidism
- Leukemia
- Liver Neoplasms
- Lymphatic Metastasis
- Malignant melanoma
- Meningomyelocele
- Metabolic Syndrome X
- Neoplasm Recurrence
- Neoplasms
- Neural Tube Defects
- Osteoporosis
- Pancreatic cancer
- Pancreatic Neoplasms
- Spinal Dysraphism
- Subdural Effusion
- Tobacco Use Disorder
- Tooth Abnormalities
- Uterine Cervical Neoplasms

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- Vitiligo

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