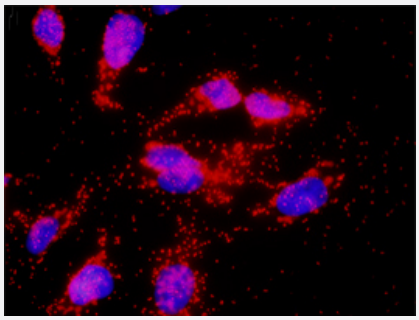
# PDGFRA(phospho Y988) & PDGFRA Protein Phosphorylation Antibody Pair

Catalog # DP0031 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 Y988 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.<br>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:<br>1. Phospho-PDGFRA Y988 rabbit polyclonal antibody (20 ul)<br>In PBS (0.09% (w/v) sodium azide)<br>2. PDGFRA mouse monoclonal antibody (40 ug)<br>In 1x PBS, pH 7.2<br>*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 |

## Pathway

- Calcium signaling pathway
- Colorectal cancer
- Cytokine-cytokine receptor interaction
- Endocytosis
- Focal adhesion
- Gap junction
- Glioma

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- 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
- Diabetes Complications
- Diabetes Mellitus
- Disease Progression
- Edema
- Esophageal Neoplasms
- Gastrointestinal Stromal Tumors
- Genetic Predisposition to Disease

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- 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
- Vitiligo

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