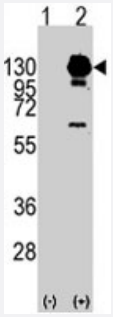
# PDGFRA polyclonal antibody

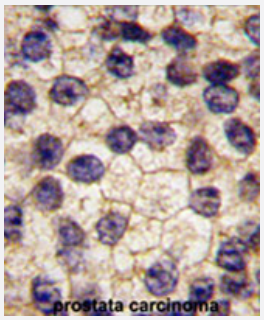
Catalog # PAB3936 Size 400 uL

## Applications




### Western Blot (Transfected lysate)

Western blot analysis of PDGFRA (arrow) using rabbit PDGFRA polyclonal antibody (Cat # PAB3936). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PDGFRA gene (Lane 2) (Origene Technologies).




### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human prostate carcinoma tissue reacted with PDGFRA polyclonal antibody (Cat # PAB3936) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

## Specification

| | |
|---|---|
| **Product Description** | Rabbit polyclonal antibody raised against synthetic peptide of PDGFRA. |
| **Immunogen** | A synthetic peptide (conjugated with KLH) corresponding to residues surrounding Y762 of human PD GFRA. |
| **Host** | Rabbit |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Purification** | Protein A purification |

| | |
|---|---|
| **Recommend Usage** | Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:10-50)<br>Western Blot (1:1000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS (0.09% sodium azide) |
| **Storage Instruction** | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Western Blot (Transfected lysate)

  Western blot analysis of PDGFRA (arrow) using rabbit PDGFRA polyclonal antibody (Cat # PAB3936). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PDGFRA gene (Lane 2) (Origene Technologies).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Formalin-fixed and paraffin-embedded human prostate carcinoma tissue reacted with PDGFRA polyclonal antibody (Cat # PAB3936) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

## Gene Info — PDGFRA

| | |
|---|---|
| **Entrez GeneID** | 5156 |
| **Protein Accession#** | NP_006197 |
| **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 growth 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 RefSeq |
| **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


- Novel missense mutations in the tyrosine kinase domain of the platelet-derived growth factor receptor alpha(PDGFRA) gene in childhood acute myeloid leukemia with t(8;21)(q22;q22) or inv(16)(p13q22).

  Hiwatari M, Taki T, Tsuchida M, Hanada R, Hongo T, Sako M, Hayashi Y.

  Leukemia 2005 Mar; 19(3):476.

- Mechanisms of resistance to imatinib mesylate in gastrointestinal stromal tumors and activity of the PKC412 inhibitor against imatinib-resistant mutants.

  Debiec-Rychter M, Cools J, Dumez H, Sciot R, Stul M, Mentens N, Vranckx H, Wasag B, Prenen H, Roesel J, Hagemeijer A, Van Oosterom A, Marynen P.

  Gastroenterology 2005 Feb; 128(2):270.

- CS-dependent response probability in an auditory masked-detection task: considerations based on models of Pavlovian conditioning.

  Mason CR, Idrobo F, Early SJ, Abibi A, Zheng L, Harrison JM, Carney LH.

  The Quarterly Journal of Experimental Psychology. B 2003 May; 56(2):193.


## Pathway

- 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
- 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
- Vitiligo