

PDGFR-α (Phospho Tyr849) Rabbit pAb

CatalogNo: YP0441

Key Features

Host Species Rabbit 	Reactivity • Human,Mouse,Rat
MW	Isotype
• 140kD (Observed)	• IgG

Applications • WB,IHC,IF,ELISA

Recommended Dilution Ratios

WB 1:500-1:2000 IHC 1:100-1:300 ELISA 1:5000 IF 1:50-200

Storage

Storage*-15°C to -25°C/1 year(Do not lower than -25°C)FormulationLiquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality Polyclonal

Immunogen Information

ImmunogenThe antiserum was produced against synthesized peptide derived from human PDGFRa
around the phosphorylation site of Tyr849. AA range:816-865

SpecificityPhospho-PDGFR- α (Y849) Polyclonal Antibody detects endogenous levels of PDGFR- α
protein only when phosphorylated at Y849.The name of modified sites may be influenced
by many factors, such as species (the modified site was not originally found in human
samples) and the change of protein sequence (the previous protein sequence is
incomplete, and the protein sequence may be prolonged with the development of protein
sequencing technology). When naming, we will use the "numbers" in historical reference
to keep the sites consistent with the reports. The antibody binds to the following
modification sequence (lowercase letters are modification sites):SNyVS

Target Information

Gene name PDGFRA PDGFR2 RHEPDGFRA

Protein Name Platelet-derived growth factor receptor alpha (PDGF-R-alpha) (PDGFR-alpha) (Alpha plateletderived growth factor receptor) (Alpha-type platelet-derived growth factor receptor) (CD140 antigen-like family member A) (CD140a antigen) (Platelet-derived growth factor alpha receptor) (Platelet-derived growth factor receptor 2) (PDGFR-2) (CD antigen CD140a)

Organism	Gene ID	UniProt ID
Human	<u>5156;</u>	<u>P16234;</u>
Mouse	<u>18595;</u>	<u>P26618;</u>
Rat	<u>25267;</u>	<u>P20786;</u>

CellularCell membrane ; Single-pass type I membrane protein . Cell projection, cilium . GolgiLocalizationapparatus .

- **Tissue specificity** Detected in platelets (at protein level). Widely expressed. Detected in brain, fibroblasts, smooth muscle, heart, and embryo. Expressed in primary and metastatic colon tumors and in normal colon tissue.
- **Function** Tyrosine-protein kinase that acts as a cell-surface receptor for PDGFA, PDGFB and PDGFC and plays an essential role in the regulation of embryonic development, cell proliferation. survival and chemotaxis. Depending on the context, promotes or inhibits cell proliferation and cell migration. Plays an important role in the differentiation of bone marrow-derived mesenchymal stem cells. Required for normal skeleton development and cephalic closure during embryonic development. Required for normal development of the mucosa lining the gastrointestinal tract, and for recruitment of mesenchymal cells and normal development of intestinal villi. Plays a role in cell migration and chemotaxis in wound healing. Plays a role in platelet activation, secretion of agonists from platelet granules, and in thrombin-induced platelet aggregation. Binding of its cognate ligands - homodimeric PDGFA, homodimeric PDGFB, heterodimers formed by PDGFA and PDGFB or homodimeric PDGFC -leads to the activation of several signaling cascades; the response depends on the nature of the bound ligand and is modulated by the formation of heterodimers between PDGFRA and PDGFRB. Phosphorylates PIK3R1, PLCG1, and PTPN11. Activation of PLCG1 leads to the production of the cellular signaling molecules diacylglycerol and inositol 1,4,5-trisphosphate, mobilization of cytosolic Ca(2+) and the activation of protein kinase C. Phosphorylates PIK3R1, the regulatory subunit of phosphatidylinositol 3-kinase, and thereby mediates activation of the AKT1 signaling pathway. Mediates activation of HRAS and of the MAP kinases MAPK1/ERK2 and/or MAPK3/ERK1. Promotes activation of STAT family members STAT1, STAT3 and STAT5A and/or STAT5B. Receptor signaling is down-regulated by protein phosphatases that dephosphorylate the receptor and its down-stream effectors, and by rapid internalization of the activated receptor.

Validation Data



Western Blot analysis of 293 cells using Phospho-PDGFR- α (Y849) Polyclonal Antibody





Western blot analysis of lysates from 293 cells, using PDGFRa (Phospho-Tyr849) Antibody. The lane on the right is blocked with the phospho peptide.

Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Tris-EDTA,pH9.0 was used for antigen retrieval. 2 Antibody was diluted at 1:200(4° overnight.3,Secondary antibody was diluted at 1:200(room temperature, 45min).

Contact information

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Antibody | ELISA Kits | Protein | Reagents