

Anti-PDGFR beta (pY771) Antibody
Rabbit polyclonal antibody to PDGFR beta (pY771)
Catalog # AP61262**Specification**

Anti-PDGFR beta (pY771) Antibody - Product Information

Application	WB
Primary Accession	P09619
Other Accession	P05622
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	123968

Anti-PDGFR beta (pY771) Antibody - Additional Information**Gene ID** 5159**Other Names**

PDGFR; PDGFR1; Platelet-derived growth factor receptor beta; PDGF-R-beta; PDGFR-beta; Beta platelet-derived growth factor receptor; Beta-type platelet-derived growth factor receptor; CD140 antigen-like family member B; Platelet-derived growth factor receptor 1; PDGFR-1; CD140b

Target/Specificity

Recognizes endogenous levels of PDGFR beta (pY771) protein.

Dilution

WB~~WB (1/500 - 1/1000)

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Anti-PDGFR beta (pY771) Antibody - Protein Information**Name** PDGFRB**Synonyms** PDGFR, PDGFR1**Function**

Tyrosine-protein kinase that acts as a cell-surface receptor for homodimeric PDGFB and PDGFD and for heterodimers formed by PDGFA and PDGFB, and plays an essential role in the regulation of embryonic development, cell proliferation, survival, differentiation, chemotaxis and migration. Plays an essential role in blood vessel development by promoting proliferation, migration and recruitment of pericytes and smooth muscle cells to endothelial cells. Plays a role in the migration

of vascular smooth muscle cells and the formation of neointima at vascular injury sites. Required for normal development of the cardiovascular system. Required for normal recruitment of pericytes (mesangial cells) in the kidney glomerulus, and for normal formation of a branched network of capillaries in kidney glomeruli. Promotes rearrangement of the actin cytoskeleton and the formation of membrane ruffles. Binding of its cognate ligands - homodimeric PDGFB, heterodimers formed by PDGFA and PDGFB or homodimeric PDGFD -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 PLCG1, PIK3R1, PTPN11, RASA1/GAP, CBL, SHC1 and NCK1. 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. Phosphorylation of PIK3R1, the regulatory subunit of phosphatidylinositol 3-kinase, leads to the activation of the AKT1 signaling pathway. Phosphorylation of SHC1, or of the C-terminus of PTPN11, creates a binding site for GRB2, resulting in the activation of HRAS, RAF1 and down-stream MAP kinases, including MAPK1/ERK2 and/or MAPK3/ERK1. Promotes phosphorylation and activation of SRC family kinases. Promotes phosphorylation of PDCD6IP/ALIX and STAM. 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.

Cellular Location

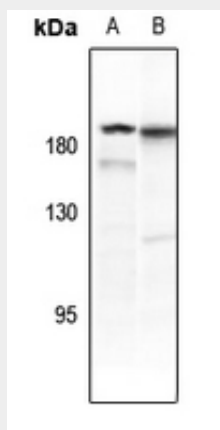
Cell membrane; Single-pass type I membrane protein. Cytoplasmic vesicle. Lysosome lumen.
Note=After ligand binding, the autophosphorylated receptor is ubiquitinated and internalized, leading to its degradation

Anti-PDGFR beta (pY771) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-PDGFR beta (pY771) Antibody - Images



Western blot analysis of PDGFR beta (pY771) expression in CT26 (A), C6 (B) whole cell lysates.

Anti-PDGFR beta (pY771) Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human PDGFR beta (pY771). The exact sequence is proprietary.