

**Anti-PDGFRB / CD140b Reference Antibody (rinucumab)
Recombinant Antibody
Catalog # APR10363****Specification**

Anti-PDGFRB / CD140b Reference Antibody (rinucumab) - Product Information

Application	FC, E, FTA
Primary Accession	P09619
Reactivity	Cynomolgus, Human
Clonality	Monoclonal
Isotype	IgG4
Calculated MW	145 KDa

Anti-PDGFRB / CD140b Reference Antibody (rinucumab) - Additional Information**Target/Specificity**
PDGFRB / CD140b**Endotoxin**

< 0.001EU/ µg, determined by LAL method.

Conjugation

Unconjugated

Expression system

CHO Cell

Format

Purified monoclonal antibody supplied in PBS, pH6.0, without preservative. This antibody is purified through a protein A column.

Anti-PDGFRB / CD140b Reference Antibody (rinucumab) - 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

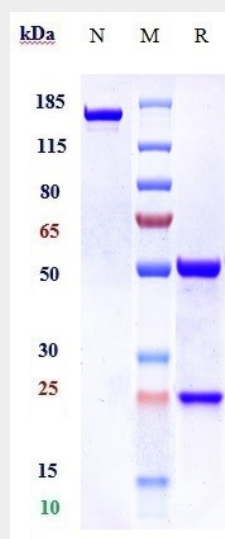
Cell membrane; Single-pass type I membrane protein. Cytoplasmic vesicle. Lysosome lumen.
Note=After ligand binding, the autophosphorylated receptor is ubiquitinated and internalized, leading to its degradation

Anti-PDGFRB / CD140b Reference Antibody (rinucumab) - Protocols

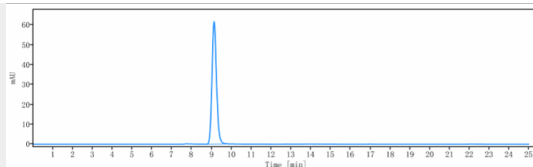
Provided below are standard protocols that you may find useful for product applications.

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

Anti-PDGFRB / CD140b Reference Antibody (rinucumab) - Images



Anti-PDGFRB / CD140b Reference Antibody (rinucumab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%



The purity of Anti-PDGFRB / CD140b Reference Antibody (rinucumab) is more than 95% ,determined by SEC-HPLC.