

Datasheet for ABIN7163626
anti-PDGFR α antibody (AA 30-198)



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2 Images

Overview

Quantity:	100 μ g
Target:	PDGFR α
Binding Specificity:	AA 30-198
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PDGFR α antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human Platelet-derived growth factor receptor alpha protein (30-198AA)
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	>95%, Protein G purified

Target Details

Target:	PDGFR α
Alternative Name:	PDGFR α (PDGFRα Products)
Background:	Background: 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.

Aliases: Alpha-type platelet-derived growth factor receptor antibody, CD140 antigen-like family member A antibody, CD140a antibody, CD140a antigen antibody, MGC74795 antibody, PDGF alpha chain antibody, PDGF Receptor alpha antibody, PDGF-R-alpha antibody, PDGFR 2 antibody, PDGFR alpha antibody, PDGFR2 antibody, PDGFRA antibody, PDGFRA/BCR fusion antibody, PGFRA_HUMAN antibody, Platelet derived growth factor receptor 2 antibody, Platelet derived growth factor receptor alpha antibody, Platelet derived growth factor receptor alpha polypeptide antibody, Platelet derived growth factor receptor antibody, Rearranged in hypereosinophilia platelet derived growth factor receptor alpha fusion protein antibody, RHEPDGFRA antibody

UniProt:	P16234
Pathways:	RTK Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Platelet-derived growth Factor Receptor Signaling

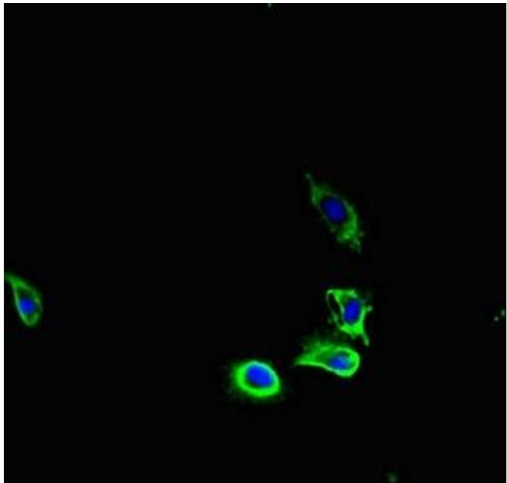
Application Details

Application Notes:	Recommended dilution: WB:1:2000-1:5000, IF:1:50-1:200,
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Application Details

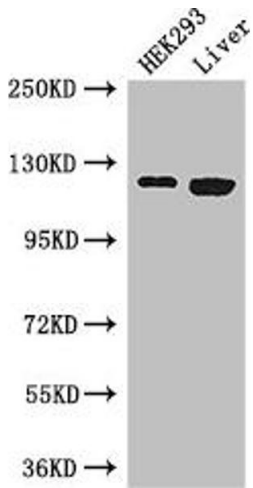
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunofluorescence

Image 1. Immunofluorescent analysis of U251 cells using ABIN7163626 at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



Western Blotting

Image 2. Western Blot Positive WB detected in: HEK293 whole cell lysate, Mouse liver tissue All lanes: PDGFRA antibody at 3 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 123, 25, 83 kDa Observed band size: 123 kDa