

Datasheet for ABIN910520

anti-PDGFRB antibody (AA 981-1066) (AbBy Fluor® 647)

1 Publication



Go to Product page

_						
	1//	Д	rv	16	٦/	٨
U	W	\vdash	ΙV	Ιt	٦,	/V

Overview			
Quantity:	100 μL		
Target:	PDGFRB		
Binding Specificity:	AA 981-1066		
Reactivity:	Human, Mouse, Rat		
Host:	Rabbit		
Clonality:	Polyclonal		
Conjugate:	This PDGFRB antibody is conjugated to AbBy Fluor® 647		
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence		
	(Paraffin-embedded Sections) (IF (p))		
Product Details			
Immunogen:	KLH conjugated synthetic peptide derived from human PDGF-R-B		
Isotype:	IgG		
Cross-Reactivity:	Human, Mouse, Rat		
Predicted Reactivity:	Dog,Cow		
Purification:	Purified by Protein A.		
Target Details			
Target:	PDGFRB		
Alternative Name:	PDGF Receptor beta (PDGFRB Products)		

Background:

Synonyms: IMF1, IBGC4, JTK12, PDGFR, CD140B, PDGFR1, PDGFR-1, 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, PDGFRB

Background: Tyrosine-protein kinase that acts as 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 Cterminus 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.

Gene ID:

5159

UniProt:

P09619

Pathways:

Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling
Pathway, Inositol Metabolic Process, Glycosaminoglycan Metabolic Process, Smooth Muscle
Cell Migration, Platelet-derived growth Factor Receptor Signaling

Application Details

Application Notes:

IF(IHC-P) 1:50-200

IF(IHC-F) 1:50-200

Application Details

IF(ICC) 1:50-200 Restrictions: For Research Use only Handling Handling Format: Liquid Concentration: 1 μg/μL Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol. Preservative: ProClin Preservative: ProClin Preservative: 1 his product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. Storage: -20 °C Storage Comment: Store at -20 °C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles. Expiry Date: 12 months Publications Quattrocelli, Giacomazzi, Broeckx, Ceelen, Bolca, Spaas, Sampaolesi: "Equine-Induced Pluripotent Stem Cells Retain Lineage Commitment Toward Myogenic and Chondrogenic Fates." in: Stem cell reports, Vol. 6, Issue 1, pp. 55-63, (2016) (PubMed).		
Handling Format: Liquid Concentration: 1 µg/µL Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol. 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 Storage Comment: Store at -20 °C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles. Expiry Date: 12 months Publications Product cited in: Quattrocelli, Giacomazzi, Broeckx, Ceelen, Bolca, Spaas, Sampaolesi: "Equine-Induced Pluripotent Stem Cells Retain Lineage Commitment Toward Myogenic and Chondrogenic		IF(ICC) 1:50-200
Format: Liquid Concentration: 1 μg/μL Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol. 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 Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles. Expiry Date: 12 months Publications Product cited in: Quattrocelli, Giacomazzi, Broeckx, Ceelen, Bolca, Spaas, Sampaolesi: "Equine-Induced Pluripotent Stem Cells Retain Lineage Commitment Toward Myogenic and Chondrogenic	Restrictions:	For Research Use only
Concentration: 1 μg/μL Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol. 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 Storage Comment: Store at -20 °C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles. Expiry Date: 12 months Publications Product cited in: Quattrocelli, Giacomazzi, Broeckx, Ceelen, Bolca, Spaas, Sampaolesi: "Equine-Induced Pluripotent Stem Cells Retain Lineage Commitment Toward Myogenic and Chondrogenic	Handling	
Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol. 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 Storage Comment: Store at -20 °C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles. Expiry Date: 12 months Publications Product cited in: Quattrocelli, Giacomazzi, Broeckx, Ceelen, Bolca, Spaas, Sampaolesi: "Equine-Induced Pluripotent Stem Cells Retain Lineage Commitment Toward Myogenic and Chondrogenic	Format:	Liquid
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 Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles. Expiry Date: 12 months Publications Product cited in: Quattrocelli, Giacomazzi, Broeckx, Ceelen, Bolca, Spaas, Sampaolesi: "Equine-Induced Pluripotent Stem Cells Retain Lineage Commitment Toward Myogenic and Chondrogenic	Concentration:	1 μg/μL
Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. Storage: -20 °C Storage Comment: Store at -20 °C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles. Expiry Date: 12 months Publications Product cited in: Quattrocelli, Giacomazzi, Broeckx, Ceelen, Bolca, Spaas, Sampaolesi: "Equine-Induced Pluripotent Stem Cells Retain Lineage Commitment Toward Myogenic and Chondrogenic	Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
handled by trained staff only. Storage: -20 °C Storage Comment: Store at -20 °C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles. Expiry Date: 12 months Publications Product cited in: Quattrocelli, Giacomazzi, Broeckx, Ceelen, Bolca, Spaas, Sampaolesi: "Equine-Induced Pluripotent Stem Cells Retain Lineage Commitment Toward Myogenic and Chondrogenic	Preservative:	ProClin
Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles. Expiry Date: 12 months Publications Product cited in: Quattrocelli, Giacomazzi, Broeckx, Ceelen, Bolca, Spaas, Sampaolesi: "Equine-Induced Pluripotent Stem Cells Retain Lineage Commitment Toward Myogenic and Chondrogenic	Precaution of Use:	·
Expiry Date: 12 months Publications Product cited in: Quattrocelli, Giacomazzi, Broeckx, Ceelen, Bolca, Spaas, Sampaolesi: "Equine-Induced Pluripotent Stem Cells Retain Lineage Commitment Toward Myogenic and Chondrogenic	Storage:	-20 °C
Publications Product cited in: Quattrocelli, Giacomazzi, Broeckx, Ceelen, Bolca, Spaas, Sampaolesi: "Equine-Induced Pluripotent Stem Cells Retain Lineage Commitment Toward Myogenic and Chondrogenic	Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Product cited in: Quattrocelli, Giacomazzi, Broeckx, Ceelen, Bolca, Spaas, Sampaolesi: "Equine-Induced Pluripotent Stem Cells Retain Lineage Commitment Toward Myogenic and Chondrogenic	Expiry Date:	12 months
Pluripotent Stem Cells Retain Lineage Commitment Toward Myogenic and Chondrogenic	Publications	
	Product cited in:	Pluripotent Stem Cells Retain Lineage Commitment Toward Myogenic and Chondrogenic