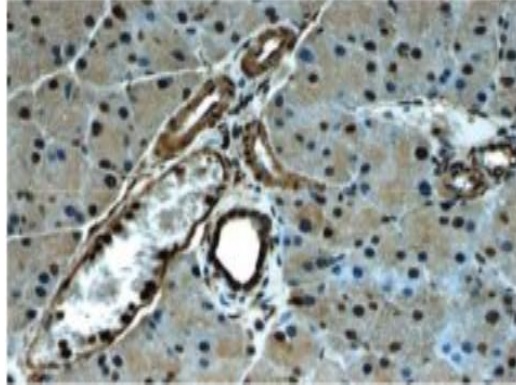


Pdgfra

Rat Anti-Mouse PDGFR-alpha / CD140a (Clone 3G28) mAb

Catalog No.	CMP114	Quantity:	100 µg
Alternate Names:	Platelet-derived growth factor receptor alpha, PDGF-R-alpha, PDGFR-alpha, CD140 antigen-like family member A, CD140a		
Description:	<p>PDGFRα and Rβ are members of the class III subfamily of receptor tyrosine kinases (RTK) that also includes the receptors for MCSF, SCF, and Flt3 ligand. All class III RTKs are characterized by the presence of five immunoglobulin-like domains in their extracellular region and a split kinase domain in their intracellular region. Ligand-induced receptor dimerization results in autophosphorylation in trans resulting in the activation of several intracellular signaling pathways that can lead to cell proliferation, cell survival, cytoskeletal rearrangement, and cell migration. Many cell types, including fibroblasts and smooth muscle cells, express both the α and β receptors. Others have only the α receptors (oligodendrocyte progenitor cells, mesothelial cells, liver sinusoidal endothelial cells, astrocytes, platelets, and megakaryocytes) or only the β receptors (myoblasts, capillary endothelial cells, pericytes, T cells, myeloid hematopoietic cells, and macrophages). Recombinant mouse and human soluble PDGF Rβ bind PDGF with high affinity and are potent PDGF antagonists.</p>		
UniProt ID:	P26618		
Gene ID:	18595		
Specificity:	Recognizes mouse PDGFR alpha. No cross-reactivity to mouse PDGFR beta.		
Source:	Cell culture supernatant		
Immunogen:	Recombinant Mouse PDGFR alpha extracellular domain		
Isotype:	Rat IgG2		
Clone:	3G28		
Formulation:	Lyophilized from sterile filtered PBS		
Purification:	Protein G affinity chromatography		
Reconstitution:	<p>Centrifuge vial briefly prior to opening. Add 500 µl sterile PBS to the vial for a concentration of 200 µg/ml. Gently mix, allow a few minutes to solubilize completely. Do not vortex.</p>		
Cross-Reactivity:	Cross-reactivity to other species have not been tested.		
Applications:	<p>Western blot: suggested dilution 1:400 - 1:800 IHC-P: suggested dilution 1:50 - 1:100</p>		
Storage & Stability:	<p>Lyophilized antibody is stable for at least 1 year from date of receipt at -20°C to -80°C. Reconstituted antibody may be prepared as aliquots and stored at -20°C to -80°C for at least six months. Avoid repeated freeze-thaw cycles.</p>		

PDGFR-alpha immunohistochemistry staining of paraffin sections of mouse pancreas from LPS exposed animals.



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