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PDGFR α (PTR1303) mouse mAb

Catalog No	YP-Ab-18201
lsotype	lgG
Reactivity	Human;Mouse;Rat
Applications	WB;IF;ELISA
Gene Name	PDGFRA PDGFR2 RHEPDGFRA
Protein Names	Platelet-derived growth factor receptor alpha (PDGF-R-alpha) (PDGFR-alpha) (EC 2.7.10.1) (Alpha platelet-derived growth factor receptor) (Alpha-type platelet- derived growth factor receptor) (CD140 ant
Source	Mouse, Monoclonal/IgG1, kappa
Specificity	This antibody detects endogenous levels of PDGFR α protein
Dilution	WB 1:500-2000. IF 1:100-500. ELISA 1:1000-5000
Immunogen	Synthesized peptide derived from human PDGFR α . AA range: 300-400
Purification	Protein G
Observed Band	190kD
Molecularweight	175kD
Form	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Concentration	1 mg/ml
Purity	≥90%
Storage Background	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. platelet derived growth factor receptor alpha(PDGFRA) Homo sapiens This gene encodes a cell surface tyrosine kinase receptor for members of the platelet-derived growth factor family. These growth factors are mitogens for cells of mesenchymal origin. The identity of the growth factor bound to a receptor monomer determines whether the functional receptor is a homodimer or a heterodimer, composed of both platelet-derived growth factor receptor alpha and beta polypeptides. Studies suggest that this gene plays a role in organ development, wound healing, and tumor progression. Mutations in this gene have been associated with idiopathic hypereosinophilic syndrome, somatic and familial gastrointestinal stromal tumors, and a variety of other cancers. [provided by RefSeq, Mar 2012],
Function	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



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	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
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Subcellular Location	Membranous
Subcellular Location Expression	Membranous Detected in platelets (at protein level). Widely expressed. Detected in brain, fibroblasts, smooth muscle, heart, and embryo. Expressed in primary and metastatic colon tumors and in normal colon tissue.
Subcellular Location Expression matters needing attention	Membranous Detected in platelets (at protein level). Widely expressed. Detected in brain, fibroblasts, smooth muscle, heart, and embryo. Expressed in primary and metastatic colon tumors and in normal colon tissue. Avoid repeated freezing and thawing!

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