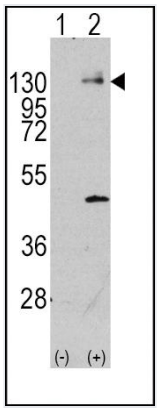
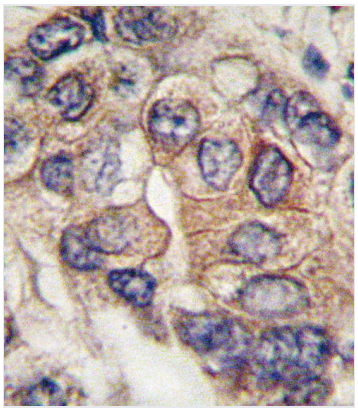
PDGFRA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PDGFRA, Polyclonal Antibody
Full Product Name	PDGFRA (Y720) (Alpha-type Platelet-derived Growth Factor Receptor, PDGF-R-alpha, CD140 Antigen-like Family Member A, CD140a Antigen, CD140a) (Azide free) (HRP)
Product Gene Name	anti-PDGFRA antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human PDGFRA.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	58.4 kDa (522aa)
OMIM	173490
3D Structure	ModBase 3D Structure for P16234
Immunogen	Synthetic peptide corresponding to amino acid residues surrounding Y720 of human PDGFRA (KLH).
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-PDGFRA antibody	Antibodies; Receptors
Applications Tested/Suitable for anti-PDGFRA antibody	Western Blot (WB), ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-PDGFRA antibody	WB: 1:50-1:100 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-PDGFRA antibody	MBS6493886 is an antibody targeting PDGFRA. Also known as PDGFRA (Y720) (Alpha-type Platelet-derived Growth Factor Receptor, PDGF-R-alpha, CD140 Antigen-like Family Member A, CD140a Antigen, CD140a) (Azide free) (HRP). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-PDGFRA antibody	1. Wilczynski, S.P., et al., Hum. Pathol. 36(3):242-249 (2005). 2. Hiwatari, M., et al., Leukemia 19(3):476-477 (2005). 3. Debiec-Rychter, M., et al., Gastroenterology 128(2):270-279 (2005). 4. Sakurai, S., et al., Hum. Pathol. 35(10):1223-1230 (2004). 5. Subramanian, S., et al., Oncogene 23(47):7780-7790 (2004).
Other Notes	Small volumes of anti-PDGFRA antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-PDGFRA antibody
Western blot analysis of PDGFRA (arrow) using rabbit polyclonal PDGFRA Antibody (Y720) (RB11101). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PDGFRA gene (Lane 2) (Origene Technologies).



Immunohistochemistry (IHC) of anti-PDGFRA antibody
Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with PDGFRA Antibody (Y720), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PDGFRA. It may not necessarily be applicable to this product.

NCBI GI #	5453870
NCBI GeneID	5156
NCBI Accession #	NP_006197
UniProt Primary Accession #	P16234
UniProt Secondary Accession #	Q6P4H5; Q96KZ7; Q9UD28; B2RE69; E9PBH0
UniProt Related Accession #	P16234
GenBank Nucleotide #	NM_006206.5
NCBI Official Full Name	platelet-derived growth factor receptor alpha isoform 1
NCBI Official Synonym Full Names	platelet derived growth factor receptor alpha
NCBI Official Symbol	PDGFRA
NCBI Official Synonym Symbols	CD140A; PDGFR2; PDGFR-2
UniProt Protein Name	Platelet-derived growth factor receptor alpha
UniProt Synonym Protein Names	Alpha platelet-derived growth factor receptor; Alpha-type platelet-derived growth factor receptor; CD140 antigen-like family member A; CD140a antigen; Platelet-derived growth factor alpha receptor; Platelet-derived growth factor receptor 2
Protein Family	Platelet-derived growth factor receptor
UniProt Gene Name	PDGFRA
UniProt Synonym Gene Names	PDGFR2; RHEPDGFRA; PDGF-R-alpha; PDGFR-alpha; PDGFR-2
UniProt Entry Name	PGFRA_HUMAN
NCBI Protein Information	platelet-derived growth factor receptor alpha

NCBI Summary for PDGFRA	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]
UniProt Comments for PDGFRA	PDGFRA: a receptor tyrosine kinase of the PDGFR family that binds members of the platelet-derived growth factor family. The identity of the growth factor bound determines whether the functional receptor is a homodimer or a heterodimer, composed of both PDGFR-alpha and -beta. Ligand binding induces receptor dimerization and autophosphorylation. Particularly important for kidney development since mice heterozygous for the receptor exhibit defective kidney phenotypes. Chromosomal rearrangments activate PDGFRalpha by fusion to BCR, causing atypical chronic myelogenous leukemia (CML), and to FIP1L1, causing idiopathic hypereosinophilic syndrome. Activating point mutations cause a minority of gastrointestinal stromal tumors (GIST). Promoter polymorphisms linked to neural tube defects including spina bifida, verified by mouse mutant model. Inhibitors: Gleevec, Sutent. OMIM: Two alternatively-spliced isoforms have been described. Protein type: Membrane protein, integral; EC 2.7.10.1; Kinase, protein; Oncoprotein; Protein kinase, tyrosine (receptor); Protein kinase, TK; TK group; PDGFR family Chromosomal Location of Human Ortholog: 4q12 Cellular Component: microvillus; membrane; integral to plasma membrane; cytoplasm; plasma membrane; nucleus; intrinsic to plasma membrane; external side of plasma membrane Molecular Function: vascular endothelial growth factor receptor activity; protein binding; protein homodimerization activity; platelet-derived growth factor binding; platelet-derived growth factor receptor binding; platelet-derived growth factor alpha-receptor activity; transmembrane receptor protein tyrosine kinase activity; ATP binding Biological Process: estrogen metabolic process; extracellular matrix organization and biogenesis; regulation of chemotaxis; peptidyl-tyrosine phosphorylation; wound healing; nerve growth factor receptor signaling pathway; viral reproduction; protein amino acid autophosphorylation; platelet-derived growth factor receptor signaling pathway; cardiac myofibril assembly; palate development; elevation of cytosolic calcium ion concentration; positive regulation of fibroblast proliferation; Leydig cell differentiation; embryonic digestive tract morphogenesis; luteinization; positive regulation of cell proliferation; male genitalia development; epidermal growth factor receptor signaling pathway; phosphoinositide-mediated signaling; fibroblast growth factor receptor signaling pathway; adrenal gland development; in utero embryonic development; positive regulation of phosphoinositide 3-kinase activity; embryonic cranial skeleton morphogenesis; embryonic skeletal morphogenesis; odontogenesis of dentine-containing teeth; positive regulation of phosphoinositide 3-kinase cascade; cell activation; innate immune response; hemopoietic progenitor cell differentiation; positive regulation of DNA replication; positive regulation of cell migration; lung development Disease: Gastrointestinal Stromal Tumor; Hypereosinophilic Syndrome, Idiopathic
Research Articles on PDGFRA	**1.** PDGFRalpha activation is an essential component that drives aggressiveness in papillary thyroid carcinoma cells. The signaling pathways are complex, involving not only the MAPK/Erk but also the PI3K/Akt and STAT3 pathways.
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