Platelet Derived Growth Factor Subunit A (PDGFA) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Platelet Derived Growth Factor Subunit A (PDGFA), Polyclonal Antibody
Full Product Name	PE-Linked Polyclonal Antibody to Platelet Derived Growth Factor Subunit A (PDGFA)
Product Gene Name	anti-PDGFA antibody
Product Synonym Names	PDGF-A; PDGF1; Platelet Derived Growth Factor Alpha Polypeptide
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Liquid; 0.01M PBS, pH7.4, containing 0.05% Proclin-300, 50% glycerol.
Purity/Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Concentration	>=100ug/ml (lot specific)
Specificity	The antibody is a rabbit polyclonal antibody raised against PDGFA. It has been selected for its ability to recognize PDGFA in immunohistochemical staining and western blotting.
Preparation and Storage	Store at 4 degree C for frequent use. Aliquot and store at -20 degree C for 12 months. Avoid repeated freeze/thaw cycles. The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: PDGFA (MBS2111898) PE Conjugated Antibody: PDGFA (MBS2118247)
Molecular Weight	22,267 Da
3D Structure	ModBase 3D Structure for P20033
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Cross Reactivity	Mouse
Conjugation	PE
Product Categories/Family for anti-PDGFA antibody	Cytokine; Tumor Immunity; Infection Immunity; Bone Metabolism
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-PDGFA antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunoprecipitation (IP)
Related Product Information for anti-PDGFA antibody	MBS2118247 is an antibody targeting PDGFA. Also known as PE-Linked Polyclonal Antibody to Platelet Derived Growth Factor Subunit A (PDGFA). Reactive in Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-PDGFA 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.

ADDITIONAL DETAILS

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

NCBI GI #	6715566
NCBI GeneID	18590
NCBI Accession #	NP_032834.1
UniProt Primary Accession #	P20033
UniProt Related Accession #	P20033
GenBank Nucleotide #	NM_008808.3
NCBI Official Full Name	platelet-derived growth factor subunit A
NCBI Official Synonym Full Names	platelet derived growth factor, alpha
NCBI Official Symbol	Pdgfa
UniProt Protein Name	Platelet-derived growth factor subunit A
UniProt Synonym Protein Names	PDGF-1; Platelet-derived growth factor A chain; Platelet-derived growth factor alpha polypeptide
Protein Family	Platelet-derived growth factor
UniProt Gene Name	Pdgfa
UniProt Synonym Gene Names	PDGF subunit A
UniProt Entry Name	PDGFA_MOUSE
NCBI Protein Information	platelet-derived growth factor subunit A; PDGF subunit A; PDGF-1; platelet-derived growth factor A chain; platelet-derived growth factor alpha polypeptide
UniProt Comments for PDGFA	PDGFA: Growth factor that plays an essential role in the regulation of embryonic development, cell proliferation, cell migration, survival and chemotaxis. Potent mitogen for cells of mesenchymal origin. Required for normal lung alveolar septum formation during embryogenesis, normal development of the gastrointestinal tract, normal development of Leydig cells and spermatogenesis. Required for normal oligodendrocyte development and normal myelination in the spinal cord and cerebellum. Plays an important role in wound healing. Signaling is modulated by the formation of heterodimers with PDGFB. Belongs to the PDGF/VEGF growth factor family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted; Secreted, signal peptide; Cytokine; Cell cycle regulation Cellular Component: extracellular space; microvillus; cell surface; membrane; extracellular region Molecular Function: collagen binding; protein homodimerization activity; growth factor activity; protein heterodimerization activity; platelet-derived growth factor binding; platelet-derived growth factor receptor binding Biological Process: skin development; multicellular organismal development; negative chemotaxis; platelet-derived growth factor receptor signaling pathway; cell projection biogenesis; positive regulation of MAP kinase activity; positive regulation of fibroblast proliferation; regulation of smooth muscle cell migration; hair follicle development; positive regulation of MAPKKK cascade; positive regulation of cell proliferation; positive regulation of mesenchymal cell proliferation; response to wounding; angiogenesis; regulation of peptidyl-tyrosine phosphorylation; negative regulation of phosphatidylinositol biosynthetic process; positive regulation of protein amino acid autophosphorylation; positive regulation of phosphoinositide 3-kinase cascade; positive regulation of protein kinase B signaling cascade; organ morphogenesis; gut development; positive regulation of cell division; blood coagulation; actin cytoskeleton organization and biogenesis; alveolus development; positive regulation of DNA replication; positive regulation of cell migration
Research Articles on PDGFA	**1.** Platelet-derived growth factor plays an integral role in mediating TGF-beta1-dependent mesenchymal stem cell stiffening.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

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