10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PDGFA Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP1720a

Specification

PDGFA Antibody (N-term) Blocking Peptide - Product Information

Primary Accession	P04085
Other Accession	NP_002598

PDGFA Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 5154

Other Names
Platelet-derived growth factor subunit A, PDGF subunit A, PDGF-1, Platelet-derived growth factor A chain, Platelet-derived growth factor alpha polypeptide, PDGFA, PDGF1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP1720a was selected from the N-term region of human PDGFA . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PDGFA Antibody (N-term) Blocking Peptide - Protein Information

Name PDGFA

Synonyms PDGF1

Function
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 (By similarity).

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Cellular Location
Secreted. Note=Released by platelets upon wounding

PDGFA Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

PDGFA Antibody (N-term) Blocking Peptide - Images

PDGFA Antibody (N-term) Blocking Peptide - Background

PDGFA is a member of the platelet-derived growth factor family. The four members of this family are mitogenic factors for cells of mesenchymal origin and are characterized by a motif of eight cysteines. This gene product can exist either as a homodimer or as a heterodimer with the platelet-derived growth factor beta polypeptide, where the dimers are connected by disulfide bonds. Studies using knockout mice have shown cellular defects in oligodendrocytes, alveolar smooth muscle cells, and Leydig cells in the testis; knockout mice die either as embryos or shortly after birth.

PDGFA Antibody (N-term) Blocking Peptide - References

Monje, P., et al., Mol. Cell. Biol. 23(19):7030-7043 (2003).Gianni, D., et al., J. Biol. Chem. 278(11):9290-9297 (2003).Muller, C., et al., J. Biol. Chem. 278(20):18330-18335 (2003).Chui, C.M., et al., Cytokine 21(2):51-64 (2003).Laprise, M.H., et al., Blood 100(10):3578-3587 (2002).