

PDGFB Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP1721a**Specification**

PDGFB Antibody (C-term) Blocking Peptide - Product Information

Primary Accession [P01127](#)
Other Accession [NP_148937](#)

PDGFB Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 5155

Other Names

Platelet-derived growth factor subunit B, PDGF subunit B, PDGF-2, Platelet-derived growth factor B chain, Platelet-derived growth factor beta polypeptide, Proto-oncogene c-Sis, Becaplermin, PDGFB, PDGF2, SIS

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP1721a](#) was selected from the C-term region of human PDGFB. 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.

PDGFB Antibody (C-term) Blocking Peptide - Protein Information

Name PDGFB

Synonyms PDGF2, SIS

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 (PubMed: <http://www.uniprot.org/citations/26599395> target="_blank">26599395). Required for normal proliferation and recruitment of pericytes and vascular smooth muscle cells in the central nervous system, skin, lung, heart and placenta. Required for normal blood vessel development, and for normal development of kidney glomeruli. Plays an important role in wound healing. Signaling is modulated by the formation of heterodimers with PDGFA (By similarity).

Cellular Location

Secreted. Note=Released by platelets upon wounding

Tissue Location

Expressed at high levels in the heart, brain (substantia nigra), placenta and fetal kidney. Expressed at moderate levels in the brain (hippocampus), skeletal muscle, kidney and lung

PDGFB Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

PDGFB Antibody (C-term) Blocking Peptide - Images**PDGFB Antibody (C-term) Blocking Peptide - Background**

PDGFB 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 alpha polypeptide, where the dimers are connected by disulfide bonds. Mutations in this gene are associated with meningioma. Reciprocal translocations between chromosomes 22 and 7, at sites where this gene and that for COL1A1 are located, are associated with a particular type of skin tumor called dermatofibrosarcoma protuberans resulting from unregulated expression of growth factor.

PDGFB Antibody (C-term) Blocking Peptide - References

Muller, C., et al., J. Biol. Chem. 278(20):18330-18335 (2003). Laprise, M.H., et al., Blood 100(10):3578-3587 (2002). Maire, G., et al., Cancer Genet. Cytogenet. 134(2):156-161 (2002). Andrae, J., et al., Biochem. Biophys. Res. Commun. 296(3):604-611 (2002). Ehrlich, H.P., et al., Cytokines Cell Mol Ther 7(3):85-90 (2002).