



Anti-Human PDGF-BB

20200804BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	102-P78
Size:	100 µg
Lot. No.:	According to product label

Preparation: Produced from sera of rabbits pre-immunized with highly pure (>98%) recombinant human PDGF BB. Anti-human PDGF BB specific antibody was purified by affinity chromatography employing immobilized human PDGF BB matrix.

Target Background

Synonyms (Target):	PDGF-BB
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PDGFs are disulfide-linked dimers consisting of two 12.0-13.5 kDa polypeptide chains, designated PDGF-A and PDGF-B chains. The three naturally occurring PDGFs; PDGF-AA, PDGF-BB and PDGF-AB, are potent mitogens for a variety of cell types including smooth muscle cells, connective tissue cells, bone and cartilage cells, and some blood cells. The PDGFs are stored in platelet α -granules and are released upon platelet activation. The PDGFs are involved in a number of biological processes, including hyperplasia, chemotaxis, embryonic neuron development, and respiratory tubule epithelial cell development. Two distinct signaling receptors used by PDGFs have been identified and named PDGFR- α and PDGFR- β . PDGFR- α is high-affinity receptor for each of the three PDGF forms. On the other hand, PDGFR- β interacts with only PDGF-BB and PDGF-AB. Recombinant human PDGF-BB is a 24.3 kDa disulfide-linked homodimer of two B chains (218 total amino acids).

Database References Target

Protein RefSeq:	NP_002599.1
Uniprot ID:	P01127
mRNA RefSeq:	NM_002608.2

Product Specifications

Species reactivity	Human
Clone/Ab feature	Rabbit IgG
Cross reactivity	Human
Host	Rabbit
Clonality	Polyclonal Antibody
Purification	Antigen-affinity purified
Immunogen	Recombinant Human PDGF-BB
Formulation	lyophilized from PBS
Reconstitution buffer	water

Reconstitution: Centrifuge vial prior to opening. Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

Stability: The lyophilized antibody is stable for 1 month at room temperature and for 5 years from date of receipt at -20°C to -80°C. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.



AVOID REPEATED FREEZE AND THAW CYCLES!

Applications

Neutralization: To yield one-half maximal inhibition [ND₅₀] of the biological activity of human PDGF-BB (2.5 ng/ml), a concentration of 0.03 - 0.04 µg/ml of this antibody is required.

Sandwich ELISA: To detect human PDGF-BB by Sandwich ELISA (100 µl/well) a concentration of 0.5 - 2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of 2 - 4 ng/well of recombinant human PDGF-BB.

Western Blot:

To detect human PDGF-BB by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant human PDGF-BB is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.

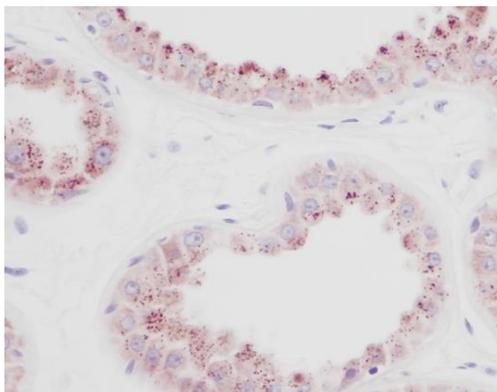
Immunohistochemistry: This antibody stained formalin-fixed, paraffin-embedded sections of normal human skin. The recommended concentration is 1.0 µg/ml overnight at 4°C. An HRP-labeled polymer detection system was used with a non-alcohol soluble AEC chromogen and a proteinase K antigen retrieval.

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!



Anti-Human PDGF-BB

Handling/Application



Immunohistochemistry: 102-P78