



20201016DS

Anti-Human PDGF-B (#5F66)

**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

Cat.-no.:	101-M45
Size:	100 µg
Lot. No.:	According to product label

Preparation: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a mouse immunized with human PDGF-BB recombinant protein). The IgG1 fraction of culture supernatant was purified by Protein G affinity chromatography.

Target Background

Synonyms (Target):	Platelet-derived growth factor-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

Host	Mouse
Reactivity against	Human
Clonality	Monoclonal Antibody
Clone	(#5F66)
Isotype	IgG1
Purification	Protein G chromatography
Antigen	recombinant human PDGF-BB
Formulation	lyophilized
Reconstitution buffer	PBS (sterile)

Reconstitution: Reconstitute the antibody with 500 µl sterile PBS and the final concentration is 200 µg/ml.

Stability: Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

Remarks: This antibody shows approximately some degree (40%) cross-reactivity with recombinant PDGF-AB and no cross-reactivity with recombinant PDGF-AA.

**AVOID REPEATED FREEZE AND THAW CYCLES!**

Applications

The antibody can be used within the following applications:

WB, IHC

Recommended usage:

WB: 1:1000

IHC: 1:50-200

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



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Application/Handling

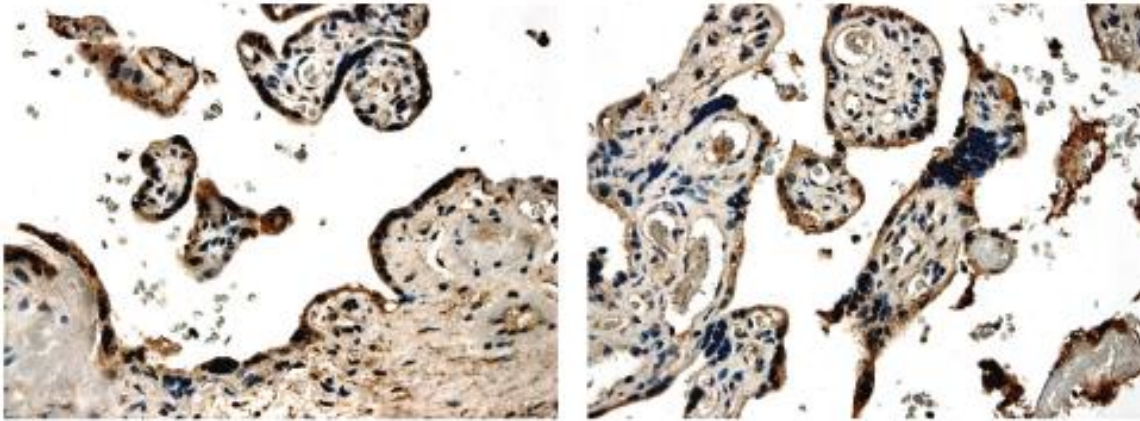


Fig. 1: Human placenta (formalin fixed and paraffin embedded) section is subjected to IHC using #101-M45.