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PP1061B2 Polyclonal Antibody to PDGFA (PDGF-AA) - Biotin

Alternate names: PDGF A, PDGF alpha, PDGF subunit A, PDGF-1, PDGF-A, PDGF1, Platelet-derived growth factor A chain, Platelet-derived growth factor alpha, Platelet-derived growth factor subunit A

Quantity: 50 µg

Background: 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 alpha-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-alpha and PDGFR-beta. PDGFRalpha is high-affinity receptor for each of the three PDGF forms. On the other hand, PDGFR-beta interacts with only PDGF-BB and PDGF-AB.

Uniprot ID: P04085

NCBI: NP_002598

GeneID: 5154

Host: Rabbit

Immunogen: Highly pure (>98%) *E.coli* derived recombinant Human PDGF-AA (Cat.-No PA118)

Format:
State: Lyophilized (sterile filtered) purified Ig fraction
Purification: Affinity Chromatography
Buffer System: PBS, pH 7.2 without preservatives
Label: Biotin
Reconstitution: Restore in sterile PBS containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml.

Applications:
Direct ELISA: To detect Human PDGF-AA by Direct ELISA (using 100 µl/well antibody solution) this antibody can be used at a concentration of ~ 1.0 µg/ml. Used in conjunction with compatible secondary reagents, allows the detection of at least 0.2 ng/well of recombinant Human PDGF-AA.
Sandwich ELISA: To detect Human PDGF-AA by Sandwich ELISA (using 100 µl/well antibody solution), a concentration of 0.25-1.0 µg/ml of this antibody is required, in conjunction with a purified anti-Human PDGF-AA (*Cat.-No* PP1061P) as a Capture antibody, allows the detection of at least 0.2-0.4 ng/well of recombinant Human PDGF-AA.
Western Blot: To detect Human PDGF-AA by Western Blot analysis this antibody can be used at a concentration of 0.1-0.2 µg/ml. When Used in conjunction with compatible secondary reagents the detection limit for recombinant Human PDGF-AA is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

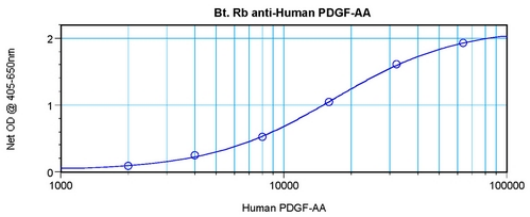
Specificity: Human Platelet Derived Growth Factor AA (hPDGF-AA).

Add. Information: Centrifuge vial prior to opening!

Storage: Prior to reconstitution store at 2-8°C.
Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

Pictures:

Direct ELISA using PDGFA Antibody - Biotin Cat.-No PP1061B



Sandwich ELISA using PDGFA Antibody - Biotin Cat.-No PP1061B