

## Product datasheet for **PP1061P2**

### PDGF AA (PDGFA) (PDGF-AA) Rabbit Polyclonal Antibody

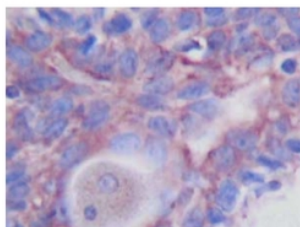
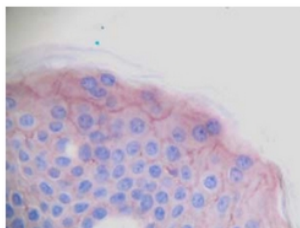
#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, FN, IHC, WB
Recommended Dilution:	<b>Neutralisation:</b> To yield one-half maximal inhibition [ND50] of the biological activity of Human PDGF-AA (5.0 ng/ml), a concentration of 0.05-0.07 µg/ml of this antibody is required. <b>Immunohistochemistry on Formalin-Fixed Paraffin-Embedded Sections:</b> 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. <i>Positive Control:</i> Normal Human Skin. <b>Direct ELISA:</b> To detect Human PDGF-AA by Direct ELISA (using 100 µl/well antibody solution) a concentration of at least 0.5 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of 0.2-0.4 ng/well of recombinant Human PDGF-AA. <b>Sandwich ELISA:</b> To detect Human PDGF-AA by Sandwich ELISA (using 100 µl/well antibody solution) a concentration of 0.5-2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with Biotin conjugated Anti-Human PDGF-AA Cat.-No PP1061B as a detection antibody, allows the detection of 0.2-0.4 ng/well of recombinant Human PDGF-AA. <b>Western Blot:</b> To detect Human PDGF-AA 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-AA is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Highly pure (>98%) E.coli derived recombinant Human PDGF-AA (Cat.-No PA118).
Specificity:	Human Platelet Derived Growth Factor AA (hPDGF-AA).
Formulation:	PBS, pH 7.2 without preservatives. State: Aff - Purified State: Lyophilized purified Ig fraction.
Reconstitution Method:	Restore in sterile water to a concentration of 0.1-1.0 mg/ml.



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<b>Purification:</b>	Affinity Chromatography using an immobilized Human PDGF-AA matrix.
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store the antibody prior to reconstitution at -20°C. Following reconstitution the antibody can be stored at 2-8°C for one month or at -20°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: One year from despatch.
<b>Gene Name:</b>	platelet derived growth factor subunit A
<b>Database Link:</b>	<a href="#">Entrez Gene 5154 Human P04085</a>
<b>Background:</b>	PDGF is a mitogen for mesenchyme- and glia-derived cells. It consists of two disulfide-bonded polypeptide chains, A and B, and occurs as three isoforms, PDGF AA, PDGF AB and PDGF BB. The three isoforms bind with different affinities to two receptor types, A and B, which are structurally related and endowed with protein-tyrosine kinase domains. Ligand binding induces activation of the receptor kinases by formation of receptor dimers; the A subunit of PDGF binds only to A receptors with high affinity, whereas the B subunit can bind to both A and B receptors. Evidence suggests that PDGF may function as a neurotrophic factor. The fact that PDGF-A receptors are expressed in oligodendrocyte progenitor cells, whereas PDGF-B receptors are expressed on neurons, suggests that the different isoforms of PDGF may regulate growth and differentiation of different cell types in the developing central nervous system by paracrine and autocrine routes.
<b>Synonyms:</b>	Platelet-derived growth factor subunit A, PDGF alpha, PDGF A, PDGF-A, Platelet-derived growth factor alpha, PDGF subunit A, Platelet-derived growth factor A chain, PDGF1, PDGF-1
<b>Note:</b>	Centrifuge vial prior to opening!
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Cytokine-cytokine receptor interaction, Focal adhesion, Gap junction, Glioma, MAPK signaling pathway, Melanoma, Pathways in cancer, Prostate cancer, Regulation of actin cytoskeleton

**Product images:**

Immunohistochemistry: This PDGFA antibody stained formalin-fixed, paraffin-embedded sections of normal human skin. The recommended concentration is 1.0 ug/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.