



# Anti-PDGFA polyclonal antibody [Biotin] (DPABY-363)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Antigen Description</b>	The platelet-derived growth factor (PDGF) family of disulfide-linked dimeric proteins consists of four homodimeric proteins, PDGF-AA, PDGF-BB, PDGF-CC and PDGF-DD, and one heterodimeric protein, PDGF-AB. Members of this protein family act mainly on connective tissue. The dimeric isoforms of PDGF are expressed by different cell types and at different times during embryonic development. All PDGF isoforms are synthesized as inactive precursors and are processed to active forms that contain a PDGF/VEGF cysteine knot domain. Only PDGF-C and PDGF-D, also named spinal cord-derived growth factors SCDGF and SCDGF-B, also contain an N-terminal CUB domain. Mature PDGF dimers bind and induce the homo- or hetero-dimerization of two receptor tyrosine kinases (PDGF R alpha and R beta).
<b>Specificity</b>	Detects human PDGF-AB in sandwich ELISAs and human PDGF-AA and human PDGF-AB in Western blots. In sandwich immunoassays using Human PDGF-B Subunit MAb, MAB1739, as a capture antibody and BAF221 as a detection antibody, approximately 50%cross-reactivity with recombinant rat (rr)PDGF-AB is observed and less than 2%cross-reactivity with recombinant human (rh)PDGF-AA, rhPDGF-BB, rrPDGF-BB, and porcine PDGF is observed.
<b>Immunogen</b>	E. coli-derived recombinant human PDGF-AA. Ser87-Thr211 Accession Number P04085
<b>Isotype</b>	IgG
<b>Source/Host</b>	Goat
<b>Species Reactivity</b>	Human
<b>Purification</b>	Antigen Affinity-purified
<b>Conjugate</b>	Biotin
<b>Applications</b>	Western Blot, ELISA Detection (Matched Pair)

<b>Format</b>	Liquid
<b>Size</b>	50 µg
<b>Buffer</b>	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
<b>Preservative</b>	None
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">PDGFA platelet-derived growth factor alpha polypeptide [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	PDGFA
<b>Synonyms</b>	PDGFA; platelet-derived growth factor alpha polypeptide; PDGF1; PDGF-A; platelet-derived growth factor subunit A; PDGF-1; PDGF A-chain; PDGF subunit A; platelet-derived growth factor A chain; platelet-derived growth factor alpha chain; platelet-derived gr
<b>Entrez Gene ID</b>	<a href="#">5154</a>
<b>Protein Refseq</b>	<a href="#">NP_002598</a>
<b>UniProt ID</b>	<a href="#">P04085</a>
<b>Chromosome Location</b>	7p22
<b>Pathway</b>	Adaptive Immune System; Ceramide signaling pathway; Constitutive PI3K/AKT Signaling in Cancer; Cytokine-cytokine receptor interaction; Cytokines and Inflammatory Response; DAP12 interactions; DAP12 signaling; Disease;
<b>Function</b>	collagen binding; growth factor activity; platelet-derived growth factor binding; platelet-derived growth factor receptor binding; contributes_to platelet-derived growth factor receptor binding; protein binding; protein heterodimerization activity; protei