



Anti-PDGFB monoclonal antibody, clone 209239 (DCABY-3964)

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

PRODUCT INFORMATION

Antigen Description	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).
Specificity	Detects the human PDGF-B subunit in direct ELISAs and Western blots. In Western blots, shows 50-100% cross-reactivity with recombinant human (rh) PDGF-AB and rrPDGF-BB but no cross-reactivity with rhCTGF, rhPIGF, rhVEGF-B186, rhVEGF-C, or rhVEGF-D.
Immunogen	E. coli-derived recombinant human PDGF-BB. Ser82-Thr190 Accession Number P01127
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	209239
Purification	Protein A or G purified from hybridoma culture supernatant
Conjugate	Unconjugated
Applications	Western Blot, ELISA Capture (Matched Pair)

Format	Liquid
Size	500 µg
Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.
Preservative	None
Storage	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 from date of receipt, 2 to 8 °C, reconstituted. 6 months from date of receipt, -20 to -70 °C, reconstituted.

GENE INFORMATION

Gene Name	PDGFB platelet-derived growth factor beta polypeptide [Homo sapiens (human)]
Official Symbol	PDGFB
Synonyms	PDGFB; platelet-derived growth factor beta polypeptide; SIS; SSV; IBGC5; PDGF2; c-sis; PDGF-2; platelet-derived growth factor subunit B; becaplermin; PDGF, B chain; PDGF subunit B; proto-oncogene c-Sis; platelet-derived growth factor 2; platelet-derived g
Entrez Gene ID	5155
Protein Refseq	NP_002599
UniProt ID	P01127
Chromosome Location	22q13.1
Pathway	Adaptive Immune System; Angiogenesis; Constitutive PI3K/AKT Signaling in Cancer; Cytokine-cytokine receptor interaction; DAP12 interactions; DAP12 signaling; Disease; Downstream signal transduction;
Function	chemoattractant activity; collagen binding; growth factor activity; identical protein binding; platelet-derived growth factor binding; platelet-derived growth factor receptor binding; contributes_to platelet-derived growth factor receptor binding; protein