

Product datasheet for **TA344309**

PDGF beta (PDGFB) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB, IHC
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-PDGFB antibody: synthetic peptide directed towards the N terminal of human PDGFB. Synthetic peptide located within the following region: NRCWALFLSLCCYLRLVSAEGDPIPEELYEMLSDHRSIRSFDDLQRLHGD
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	27 kDa
Gene Name:	platelet derived growth factor subunit B
Database Link:	NP_002599 Entrez Gene 5155 Human P01127



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Background:

PDGFB is a member of the platelet-derived growth factor family. The four members of this family are mitogenic factors for cells of mesenchymal origin and are characterized by a motif of eight cysteines. PDGFB can exist either as a homodimer (PDGF-BB) or as a heterodimer with the platelet-derived growth factor alpha polypeptide (PDGF-AB), where the dimers are connected by disulfide bonds. Mutations in this gene are associated with meningioma. Reciprocal translocations between chromosomes 22 and 7, at sites where this gene and that for COL1A1 are located, are associated with a particular type of skin tumor called dermatofibrosarcoma protuberans resulting from unregulated expression of growth factor. The protein encoded by this gene is a member of the platelet-derived growth factor family. The four members of this family are mitogenic factors for cells of mesenchymal origin and are characterized by a motif of eight cysteines. This gene product can exist either as a homodimer (PDGF-BB) or as a heterodimer with the platelet-derived growth factor alpha polypeptide (PDGF-AB), where the dimers are connected by disulfide bonds. Mutations in this gene are associated with meningioma. Reciprocal translocations between chromosomes 22 and 7, at sites where this gene and that for COL1A1 are located, are associated with a particular type of skin tumor called dermatofibrosarcoma protuberans resulting from unregulated expression of growth factor. Two splice variants have been identified for this gene.

Synonyms:

c-sis; IBGC5; PDGF-2; PDGF2; SIS; SSV

Note:

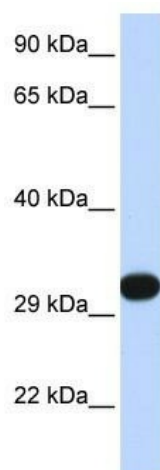
Immunogen Sequence Homology: Dog: 100%; Pig: 100%; Rat: 100%; Human: 100%; Mouse: 100%; Sheep: 100%; Bovine: 100%; Guinea pig: 100%

Protein Families:

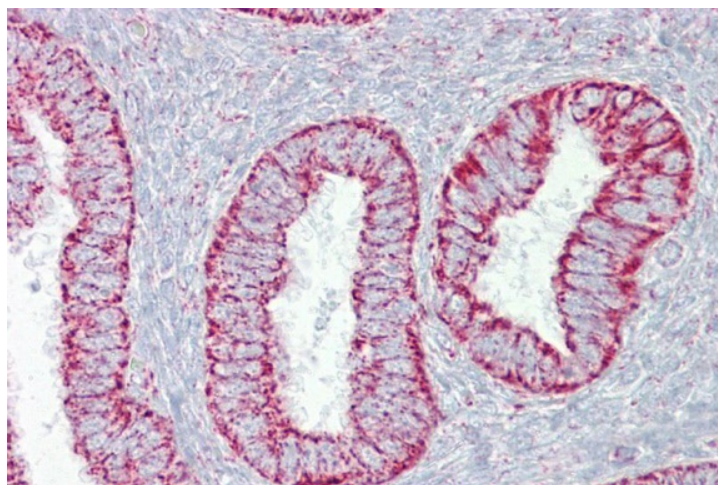
Druggable Genome

Protein Pathways:

Cytokine-cytokine receptor interaction, Focal adhesion, Gap junction, Glioma, MAPK signaling pathway, Melanoma, Pathways in cancer, Prostate cancer, Regulation of actin cytoskeleton, Renal cell carcinoma

Product images:

WB Suggested Anti-PDGFB Antibody Titration: 0.2-1 ug/ml; ELISA Titer: 1:1562500; Positive Control: 293T cell lysate. There is BioGPS gene expression data showing that PDGFB is expressed in HEK293T.



Immunohistochemistry with Uterus tissue at an antibody concentration of 5 ug/ml using anti-PDGFB antibody