

Datasheet for ABIN2787714
anti-PDGFB antibody (N-Term)



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2 Images

Overview

Quantity:	100 µL
Target:	PDGFB
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Mouse, Dog, Cow, Sheep, Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PDGFB antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human PDGFB
Sequence:	NRCWALFLSL CCYLRLVSAE GDPIPEELYE MLSDHSIRSF DDLQRL LHGD
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Human: 100%, Mouse: 100%, Rat: 100%, Sheep: 100%
Characteristics:	This is a rabbit polyclonal antibody against PDGFB. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	PDGFB
Alternative Name:	PDGFB (PDGFB Products)

Target Details

Background:	<p>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.</p> <p>Alias Symbols: FLJ12858, PDGF2, SIS, SSV, c-sis</p> <p>Protein Interaction Partner: COL6A1, COL5A1, COL4A1, COL3A1, COL2A1, COL1A2, COL1A1, LYVE1, NRP1, ADIPOQ, MDFI, PDAP1, ART1, PDGFB, HRAS, THBS1, PDGFRA, PDGFRB, HSPG2, LRP1, A2M, SPARC,</p> <p>Protein Size: 241</p>
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Molecular Weight:	27 kDa
Gene ID:	5155
NCBI Accession:	NM_002608 , NP_002599
UniProt:	P01127
Pathways:	RTK Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Regulation of Carbohydrate Metabolic Process , Smooth Muscle Cell Migration , Platelet-derived growth Factor Receptor Signaling

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 241 AA

Application Details

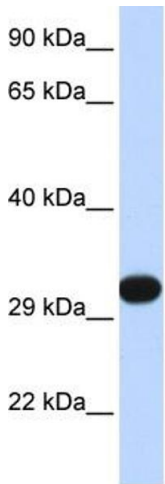
Restrictions:

For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



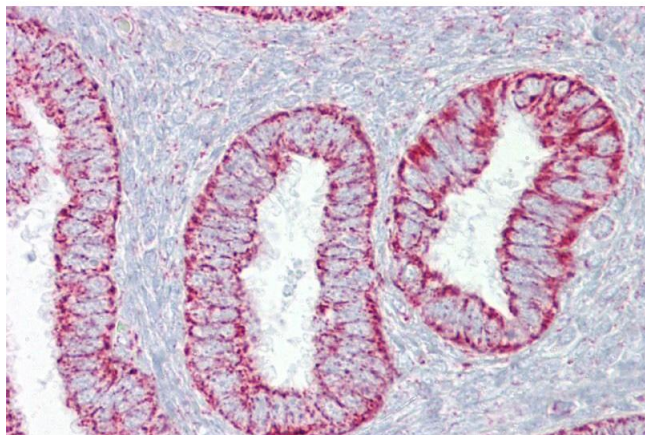
Western Blotting

Image 1. WB Suggested Anti-PDGFB Antibody Titration:

0.2-1 ug/ml

ELISA Titer: 1:1562500

Positive Control: 293T cell lysate



Immunohistochemistry

Image 2. Immunohistochemistry with Uterus tissue at an antibody concentration of 5µg/ml using anti-PDGFB antibody (ARP58509_P050)