

Datasheet: AHP793

Description:	RABBIT ANTI HUMAN PDGF BB HOMODIMER
Specificity:	PDGF BB HOMODIMER
Other names:	PLATELET DERIVED GROWTH FACTOR BB
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			■	
Immunohistology - Frozen			■	
Immunohistology - Paraffin (1)	■			
ELISA	■			0.5 - 2.0ug/ml
Immunoprecipitation			■	
Western Blotting	■			0.1 - 0.2ug/ml
Functional Assays	■			0.03 - 0.04ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) This product requires enzyme mediated antigen retrieval prior to staining of paraffin sections. Proteinase K is recommended for this purpose.

Target Species	Human
Product Form	Purified IgG - lyophilised
Reconstitution	Reconstitute with 0.1ml distilled water. For long term storage the addition of 0.09% sodium azide is recommended. NB: For functional studies do not add azide.
Antiserum Preparation	Antisera to human PDGF-BB were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present.
Approx. Protein Concentrations	IgG concentration 1.0mg/ml after reconstitution

Immunogen	Recombinant human PDGF-BB
External Database Links	<p>UniProt: P01127 Related reagents</p> <p>Entrez Gene: 5155 PDGFB Related reagents</p>
Synonyms	PDGF2, SIS
Specificity	<p>Rabbit anti Human PDGF BB Homodimer antibody recognizes human PDGF-BB (Platelet derived growth factor B chain), a disulphide-linked beta-chain homodimer and member of the PDGF family, released from platelet alpha-granules following trauma/platelet activation.</p> <p>Naturally occurring active forms of PDGF exist as dimers of two alpha chains (AA), two beta chains (BB), or a combination of both chains (AB), all of which signal through the high-affinity PDGF-Ralpha receptor, and the latter two of which can also signal through the PDGF-Rbeta receptor. PDGFs are potent mitogens for a variety of cells including those of the connective tissue, bone and cartilage, blood and smooth muscle cells, and are involved in several biological processes including chemotaxis, hyperplasia and embryonic neurogenesis.</p> <p>The expression of PDGF-BB is associated with autocrine growth stimulation and the formation of various tumour types, with several studies focusing on dermatofibrosarcoma protuberans (DP), an infiltrating skin tumour arising from a translocation occurring between chromosome 22 (the location of the PDGFB gene) and chromosome 17 (the location of the COL1A1 gene), which results in the generation of the COL1A1-PDGFB chimeric protein.</p>
Further Reading	<p>1. Rao, C.D. <i>et al.</i> (1986) Structure and sequence of the human c-sis/platelet-derived growth factor 2 (SIS/PDGF2) transcriptional unit. Proc Natl Acad Sci U S A. 83 (8): 2392-6.</p> <p>2. Simon, M.P. <i>et al.</i> (2001) Structural and functional analysis of a chimeric protein COL1A1-PDGFB generated by the translocation t(17;22)(q22;q13.1) in Dermatofibrosarcoma protuberans (DP). Oncogene. 20 (23): 2965-75.</p>
Storage	<p>Prior to reconstitution store at +4°C.</p> <p>After reconstitution store at -20°C.</p> <p>Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Shelf Life	12 months from date of reconstitution.
Health And Safety Information	Material Safety Datasheet documentation #10294 available at: 10294: https://www.bio-rad-antibodies.com/uploads/MSDS/10294.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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