

Datasheet: AHP793

BATCH NUMBER 170125

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| 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.

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| 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.

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| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | None present. |
| Carrier Free | Yes |
| 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 |
| RRID | AB_844650 |
| 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 | <ol style="list-style-type: none"> 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. 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.](#)

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| Storage | Prior to reconstitution store at -20°C. After reconstitution store at -20°C. This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. |
| Guarantee | 12 months from date of despatch |
| Health And Safety Information | Material Safety Datasheet documentation #10294 available at: https://www.bio-rad-antibodies.com/SDS/AHP793 10294 |
| Regulatory | For research purposes only |

Related Products

Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Recommended Useful Reagents

- [ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)
[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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|----------------------------------|---|------------------|---|---------------|---|
| North & South America | Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com | Worldwide | Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com | Europe | Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com |
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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M372562:200706'

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