

## Datasheet: AHP792

<b>Description:</b>	RABBIT ANTI HUMAN PDGF AA HOMODIMER
<b>Specificity:</b>	PDGF AA HOMODIMER
<b>Other names:</b>	PLATELET DERIVED GROWTH FACTOR AA
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			
ELISA	▪			0.5ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			0.1 - 0.2ug/ml
Functional Assays	▪			0.17 - 0.19ug/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.**

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - lyophilised
<b>Reconstitution</b>	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.
<b>Antiserum Preparation</b>	Antisera to human PDGF-AA were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml

<b>Immunogen</b>	Recombinant human PDGF-AA.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P04085</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">5154</a>    PDGFA    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	PDGF1
<b>Specificity</b>	<p><b>Rabbit anti Human PDGF AA Homodimer antibody</b> recognizes human PDGF-AA (Platelet derived growth factor A chain), a disulphide-linked alpha-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>Increased expression of PDGF-AA has been associated with a diverse range of conditions including progression of osteosarcomas, persistent Cytomegalovirus infection in kidney allografts and mediation of IL-13-stimulated lung fibroblast proliferation in asthma.</p>
<b>Further Reading</b>	<ol style="list-style-type: none"> <li>1. Rorsman, F. <i>et al.</i> (1988) Structural characterization of the human platelet-derived growth factor A-chain cDNA and gene: alternative exon usage predicts two different precursor proteins. <a href="#">Mol Cell Biol. 8 (2): 571-7.</a></li> <li>2. Ingram, J.L. <i>et al.</i> (2004) IL-13 and IL-1beta promote lung fibroblast growth through coordinated up-regulation of PDGF-AA and PDGF-Ralpha. <a href="#">FASEB J. 18 (10): 1132-4.</a></li> </ol>
<b>Storage</b>	<p>Prior to reconstitution store at +4°C.  After reconstitution store at -20°C.</p> <p>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.</p>
<b>Shelf Life</b>	12 months from date of reconstitution.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10162 available at: 10162: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)	<a href="#">FITC</a>
Sheep Anti Rabbit IgG (STAR35...)	<a href="#">RPE</a>
Goat Anti Rabbit IgG (H/L) (STAR124...)	<a href="#">HRP</a>

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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