

Datasheet: MCA5989GA

Description:	MOUSE ANTI HUMAN PDGF AA HOMODIMER
Specificity:	PDGF
Other names:	PLATELET DERIVED GROWTH FACTOR AA
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	A04-5D9
Isotype:	IgG2b
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
ELISA	■			

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.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from serum free tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	<i>E. coli</i> derived recombinant protein corresponding to aa 87-210 of human PDGF AA
External Database Links	<p>UniProt: P04085 Related reagents</p> <p>Entrez Gene: 5154 PDGFA Related reagents</p>

Synonyms	PDGF1
Fusion Partners	Spleen cells from immunised mouse BALB/c were fused with cells of the mouse SP2/0 myeloma cell line
Specificity	<p>Mouse anti Human PDGF AA homodimer antibody, clone A04-5D9 recognizes platelet derived growth factor (PDGF) AA a potent mitogen usually stored in platelets. PDGF-AA is 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 (Hoch & Soriano, 2003).</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 (Leask, 2010 and Heldin 2013).</p>
Further Reading	<ol style="list-style-type: none"> Heldin, C.H. (2013) Targeting the PDGF signaling pathway in tumor treatment Cell Commun Signal 20: 11:97. Leask, A. (2010) Potential therapeutic targets for cardiac fibrosis: TGFbeta, angiotensin, endothelin, CCN2, and PDGF, partners in fibroblast activation Circ Res. 106: 1675-80. Hoch, R.V. & Soriano, P. (2003) Roles of PDGF in animal development Development 130: 4769-84.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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	18 months from date of despatch
Health And Safety Information	<p>Material Safety Datasheet documentation available at:</p> <p>Material Safety Datasheet documentation #10040 available at https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</p>
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...) [RPE](#)

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@549](#), [DyLight@649](#), [DyLight@680](#), [DyLight@800](#), [FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Human Anti Mouse IgG2b (HCA038...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

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