

Datasheet: 0100-0220

Description:	MOUSE ANTI HUMAN CD140a
Specificity:	CD140a
Other names:	PDGF RECEPTOR ALPHA
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	35248 (57/20)
Isotype:	IgG1
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
Immunohistology - Paraffin	▪			10µg/ml - 20µg/ml
ELISA	▪			0.5 µg/ml - 1 µg/ml
Western Blotting (1)	▪			1 µg/ml - 2 µg/ml
Immunofluorescence	▪			
Functional Assays (2)			▪	

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 the appropriate negative/positive controls.

(1)**This antibody recognizes CD140a under non-reducing conditions.**

(2)**Removal of Sodium Azide is recommended prior to use in functional assays. The use of [EQU003](#) is recommended for this purpose.**

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 5% Trehalose
Approx. Protein Concentrations	1.0 mg/ml
Immunogen	Purified recombinant human platelet-derived growth factor (PDGF) receptor alpha (extracellular domain), derived from the insect cell line Sf21.

External Database Links	UniProt: P16234 Related reagents
	Entrez Gene: 5156 PDGFRA Related reagents
RRID	AB_2162480
Specificity	<p>Mouse anti Human CD140a antibody, clone 35248 recognizes the human platelet-derived growth factor receptor alpha, a 1089 amino acid, ~180 kDa single pass type I transmembrane glycoprotein.</p> <p>PDGF is a major serum mitogen that can exist as a homo- or heterodimeric protein consisting of disulphide-linked PDGF-A and PDGF-B chains (Hart et al. 1990). The PDGF-AA, PDGF-BB and PDGF-AB isoforms have been shown to bind to two distinct cell surface PDGF receptors with different affinities. Whereas PDGF receptor alpha binds all three isoforms with high affinity, PDGF R beta binds PDGF-BB and AB but not PDGF-AA (Hart et al. 1988). Both PDGF receptor alpha and beta are members of the class III subfamily of receptor tyrosine kinases (Westermark 1995).</p> <p>Mouse anti Human CD140a antibody, clone 35248 has been reported for use in functional studies. The ND50 was determined as 0.2-0.6 µg/ml for blocking 10 ng/ml of PDGF-AA biological activity on a quiescent confluent cell culture of human WS1 cells.</p>
References	<ol style="list-style-type: none"> De Paula, M.L. <i>et al.</i> (2014) The PTEN inhibitor bisperoxovanadium enhances myelination by amplifying IGF-1 signaling in rat and human oligodendrocyte progenitors. Glia. 62 (1): 64-77. Preisner, A. <i>et al.</i> (2015) Non-steroidal anti-inflammatory drug indometacin enhances endogenous remyelination. Acta Neuropathol. 130 (2): 247-61. Kuroda, M. <i>et al.</i> (2017) Peripherally derived FGF21 promotes remyelination in the central nervous system. J Clin Invest. 127 (9): 3496-509.
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.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10044 available at: 10044: https://www.bio-rad-antibodies.com/uploads/MSDS/10044.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Rabbit Anti Mouse IgG (STAR13...)	HRP

Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@680](#),
[DyLight@800](#), [FITC](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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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