

Datasheet: 0100-0220

BATCH NUMBER 240415

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	0.09% Sodium Azide (NaN ₃)

Stabilisers	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	<p>UniProt: P16234 Related reagents</p> <p>Entrez Gene: 5156 PDGFRA Related reagents</p>
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 (Westermarck 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:
<https://www.bio-rad-antibodies.com/SDS/0100-0220>
10044

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@550 , DyLight@650 , DyLight@680 , DyLight@800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

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