

Datasheet: MCA6118PE

Description:	MOUSE ANTI HUMAN CD140a:RPE
Specificity:	CD140a
Other names:	PDGFR-α
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	16A1
lsotype:	lgG1
Quantity:	100 TESTS/2ml

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 <u>www.bio-rad-antibodies.com/protocols</u> .								
		Yes	No	Not Determined	Suggested Dilution				
	Flow Cytometry				Neat				
	Where this product has not been tested for use in a particular technique this does not								
	necessarily exclude its a guide only. It is reco system using appropri	mmended that t	he use	r titrates the product for	g dilutions are given as or use in their own				
Target Species	Human								
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - liquid								
Max Ex/Em	Fluorophore	Excitation Max	(nm)	Emission Max (nm)					
	RPE 488nm laser	496		578					
	RPE 561nm laser	546		578					
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant								
Buffer Solution	Phosphate buffered saline								
Preservative	<0.1% Sodium Azide (NaN ₃)								
Stabilisers	0.2% Bovine Serum Albumin								
Immunogen	CD140a-transfected N								

External Database Links	UniProt: P16234 Related reagents Entrez Gene: 5156 PDGFRA Related reagents			
Specificity	Mouse anti Human CD140a, clone 16A1 recognizes CD140a also known as platelet- derived growth factor receptor alpha (PDGFR- α), is a 180 kDa single pass type I transmembrane glycoprotein and a member of the receptor tyrosine kinases (<u>Westermark</u> <u>1995</u>).			
	140a is largely expressed by mesenchymal cells and plays a key role in embryonic anogenesis and development via regulation of differentiation, migration pathways. <u>bch & Sorian 2003</u>). Upregulation of this receptor has also been associated with various eases including atherosclerosis, rheumatoid arthritis and nephritis (<u>Heldin & stermark 1999</u>).			
	Upon binding of one of its ligands, PDGF-AA, PDGF-BB or PDGF-AB, the receptor forms either a homo- or hetero-dimer with CD140b. This induces autophosphorylation of the receptors intracellular tyrosine residues which activates downstream signaling pathways such as Ras-MAPK, PI3K and PLC-Y (<u>Andrae et al. 2008</u>).			
	This clone 16A1 has been used in immunocytochemistry experiments to examine the co-localization of CD140a with tryptophan hydroxylase-2 in the myenteric plexus (<u>Coyle et al. 2016</u>).			
Purity	>95% by SDS PAGE			
Flow Cytometry	Use 20ul of the undiluted reagent to label 1x10 ⁶ cells in 100ul			
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light.			
Guarantee	Guaranteed for 12 months from the date of despatch or until the date of expiry, whichever comes first. Please see label for expiry date.			
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA6118PE 10041			
Regulatory	For research purposes only			

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:RPE (MCA928PE)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21			
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50	То		
	Email: antibody_sales_us@bio-rad.com		Email: antibody_sales_uk@bio-rad.com		Email: antibody_sales_de@bio-rad.comd a			
batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M401891:220718'								

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