

Datasheet: MCA2388P647

Description:	RAT ANTI MOUSE CD31:RPE-Alexa Fluor® 647			
Specificity:	CD31			
Other names:	PECAM-1			
Format:	RPE-ALEXA FLUOR® 647			
Product Type:	Monoclonal Antibody			
Clone:	ER-MP12			
Isotype:	lgG2a			
Quantity:	100 TESTS/1ml			

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 - 1/5			
	necessarily exclude it	s use in such proced ommended that the u	ser titrates the antibody	ng dilutions are given as			
Target Species	Mouse						
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) Alexa Fluor®647 - lyophilized						
Reconstitution	Reconstitute with 1 ml distilled water						
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)				
	RPE-Alexa Fluor®647 488nm laser	496	667				
	RPE-Alexa Fluor®647 561nm laser	546	667				
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
Buffer Solution	Phosphate buffered s	aline					

Preservative Stabilisers	0.09% Sodium Azide1% Bovine Serum Albumin5% Sucrose
Immunogen	BALB/c macrophage precursor cell hybrids
External Database Links	UniProt: <u>Q08481</u> <u>Related reagents</u>
	Entrez Gene: <u>18613</u> Pecam1 <u>Related reagents</u>
Synonyms	Pecam, Pecam-1
RRID	AB_871974
Fusion Partners	Cells from immunised rats were fused with the cells of the rat Y3-Ag1.2.3 myeloma cell line
Specificity	Rat anti Mouse CD31 antibody, clone ER-MP12 recognizes mouse CD31, a 140 kDa cell surface glycoprotein that is expressed at high levels on endothelial cells, platelets and most leukocyte subpopulations.
	CD31 is also expressed on a major population of macrophage / dendritic cell precursors in the bone marrow. Studies show that clone ER-MP12 can be used in conjunction with clone ER-MP20 (MCA2389GA) in two colour flow cytometric analysis, to identify different stages of myeloid progenitor cells in mouse bone marrow (de Bruijn <i>et al.</i> 1998).
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
	The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR (<u>BUF041A/B</u>).
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	barrier permeability after injury. <u>J Neuroinflammation. 15 (1): 142.</u>
Storage	Store at +4°C. DO NOT FREEZE.
	This product should be stored undiluted. This product is photosensitive and should be
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	microcentrifugation before use.
Guarantee	12 months from date of despatch
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