

Datasheet: MCA1578PET

Description:	MOUSE ANTI HUMAN CD34:RPE
Specificity:	CD34 CLASS III
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	581
lsotype:	lgG1
Quantity:	25 TESTS

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, ple						
	Flow Cytometry	Yes	No	Not Determined	Suggested Dilution Neat - 1/10		
		as not been tester	t for use	in a particular technique			
	Where this antibody has not been tested for use in a particular technique this does not necessarily avaluate its use in such precedures. Suggested working dilutions are given as a guide only. It is						
	exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is						
	recommended that the user titrates the antibody for use in their own system using appropriate						
	negative/positive cont	rois.					
Target Species	Human						
Species Cross	Reacts with: Cynomol	aus monkev					
Reactivity	N.B. Antibody reactivity and working conditions may vary between species.						
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - liquid						
Max Ex/Em	Fluorophore	Excitation Max (n	m) Emi	ssion Max (nm)			
	RPE 488nm laser	496		578			
Preparation	Purified IgG prepared by affinity chromatography on Protein A.						
Buffer Solution	Phosphate buffered saline						
Preservative	0.09% Sodium Azide						
Stabilisers	0.2% Bovine Serum Albumin						
External Database	UniProt:						
Links	P28906 Related reagents						
	Entrez Gene:						
	947 CD34 Related reagents						

Specificity	Mouse anti Human CD34 antibody, clone 581 recognizes the human CD34 cell surface antigen also known as Hematopoietic progenitor cell antigen CD34. Clone 581 binds to an epitope of human CD34 resistant to neuraminadase, chymopapain and glycoprotease treatments. The binding epitopes are classified according to their resistance to enzymatic degradation and antibodies assigned according to this and cross inhibition studies. Clone 581 is classified as class III (Lanza <i>et al.</i> 1999).
	CD34 is a 385 amino acid pro-peptide with the 31 amino acid signal peptide cleaved to yield the mature form of CD34. CD34 is a single pass type I ~105-120 kD highly glycosylated transmembrane glycoprotein, expressed by hematopoietic stem cells and small vessel endothelial cells. CD34 contains a number of sialylated residues and has a mucin-like structure (<u>Simmons <i>et al.</i> 1992</u>). A truncated form of the CD34 molecule has also been identified lacking the carboxy-terminal region of the intracellular sequence, also bearing a sequence switch in the remaining cytoplasmic region (<u>Nakamura <i>et al.</i> 1993</u>). Clone 581 is expected to react with both isoforms of the CD34 molecule as it recognizes an epitope located in the extracellular region of human CD34.
	Mouse anti Human CD34 antibody, clone 581 has been used successfully for the immunohistochemical detection of stem-like cells present in hepatoblastoma lesions on cryotat sections (Fiegal <i>et al.</i> 2004).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	 Civin, C.I. <i>et al.</i> (1984) Antigenic analysis of hematopoiesis. III. A hematopoietic progenitor cell surface antigen defined by a monoclonal antibody raised against KG-1a cells. <u>J Immunol. 133 (1): 157-65.</u> Yoshino, N. <i>et al.</i> (2000) Upgrading of flow cytometric analysis for absolute counts, cytokines and other antigenic molecules of Cynomolgus monkeys (<i>Macaca fascicularis</i>) by using anti-human cross-reactive antibodies. <u>Exp. Anim. 49: 97-110.</u> Maumus, M. <i>et al.</i> (2011) Native human adipose stromal cells: localization, morphology and phenotype. <u>Int J Obes (Lond). 35 (9): 1141-53.</u> Fiegel, H.C. <i>et al.</i> (2004) Stem-like cells in human hepatoblastoma. <u>J Histochem Cytochem. 52 (11): 1495-501.</u>
Storage	Store at +4°C.
	DO NOT FREEZE.
	This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	6 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: <u>https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</u>
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:RPE (MCA928PE)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

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
	Email: antibody_sales_us@bio-rad	l.com	Email: antibody_sales_uk@bio-rac	l.com	Email: antibody_sales_de@bio-rad.com

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