

Datasheet: MCA1841PET

Description:	MOUSE ANTI HUMAN CD117:RPE				
Specificity:	CD117				
Other names:	C-KIT, SCF-R				
Format:	RPE				
Product Type:	Monoclonal Antibody				
Clone:	104D2				
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, please visit www.bio-rad-antibodies.com/protocols .						
	Yes No Not Determined Suggested Dilution						
	Flow Cytometry	•			Neat		
	Where this antibody 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 antibody for use in their own system using appropriate						
	negative/positive controls.						
Target Species	Human						
Species Cross	Reacts with: Cynomol	gus monkey, Bov	rine				
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 (nm) Emi	ssion Max (nm)			
	RPE 488nm laser	496		578			
Buffer Solution	Phosphate buffered saline						
Preservative	0.09% Sodium Azide						
Stabilisers	0.2% Bovine Serum						
Immunogen	MOLM-1 megakaryocyte cell line						
External Database	UniProt:						
Links		d an early t					
	P10721 Related reagents						
	Entrez Gene:						
	<u>3815</u> KIT <u>Relat</u>	<u>ed reagents</u>					

Specificity	Mouse anti Human CD117 antibody, clone 104D2 recognizes the human CD117 cell surface antigen, a 145 kDa glycoprotein also known as c-kit. CD117 is expressed by some haematopoietic stem cells (approx. 70% of CD34+ve cells in normal bone marrow are CD117+ve), some acute myeloid leukaemias and by mast cells.
	Functionally CD117 is a receptor for stem cell factor, and has receptor tyrosine kinase activity.
	Mouse anti Human CD117 antibody, clone 104D2 is non-neutralising.
Flow Cytometry	Use 20 ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	 Broudy, V.C. <i>et al.</i> (1998) Analysis of c-kit receptor dimerization by fluorescence resonance energy transfer. <u>Blood. 91 (3): 898-906.</u> Yoshino, N. <i>et al.</i> (2000) Upgrading of flow cytometric analysis for absolute counts, cytokines and other antigenic molecules of cynomolgus monkeys (Macaca fascicularis) by using anti-human cross-reactive antibodies. <u>Exp Anim. 49 (2): 97-110.</u> Jayapal, M. <i>et al.</i> (2006) Genome-wide gene expression profiling of human mast cells stimulated by IgE or FcepsilonRI-aggregation reveals a complex network of genes involved in inflammatory responses. <u>BMC Genomics. 7: 210.</u> Randall, V.A. <i>et al.</i> (2008) Stem cell factor/c-Kit signalling in normal and androgenetic alopecia hair follicles. J Endocrinol. 197: 11-23. GarikipatiV, N.S. <i>et al.</i> (2018) Isolation and characterization of mesenchymal stem cells from human fetus heart. <u>PLoS One. 13 (2): e0192244.</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
America	Fax: +1 919 878 3751	
	Email: antibody_sales_us@bio-rad.	com

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