

Datasheet: MCA1841PE

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:	100 TESTS/0.5ml

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 N	o Not Determined	00				
	Flow Cytometry	•		Neat				
	necessarily exclude its	s use in such pro mmended that th	e user titrates the produ	rking dilutions are given as				
Target Species	Human							
Species Cross Reactivity	Reacts with: Cynomolgus monkey, Bovine N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.							
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					
Buffer Solution	Phosphate buffered sa	aline						
Preservative Stabilisers	0.09% sodium azide (l 0.2% bovine serum all	0,						

Immunogen	MOLM-1 megakaryocyte cell line
External Database Links	UniProt: P10721 Related reagents Entrez Gene: <u>3815</u> KIT Related reagents
RRID	AB_322904
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-neutralizing.
Flow Cytometry	Use 5 μ l of the suggested working dilution to label 10 ⁶ cells in 100 μ l
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. <u>J Endocrinol. 197: 11-23.</u> Venkata, N.S.G. <i>et al.</i> (2018) Isolation and characterization of mesenchymal stem cells from human fetus heart. <u>PLoS One. 13 (2): e0192244.</u>
Storage	This product is shipped at ambient temperature. 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.
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/MCA1841PE

	10041				
Regulato	ry For res	earch purpose			
Relate	d Products				
Recomm	nended Negative C	Controls			
MOUSE Iç	G1 NEGATIVE CONTR	ROL:RPE (MCA9	28PE)		
Recomm	nended Useful Rea	agents			
	EROBLOCK (BUF070A EROBLOCK (BUF070E				
orth & South nerica	Tel: +1 800 265 7376 Fax: +1 919 878 3751	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50
	Email: antibody sales us@b	io-rad com	Email: antibody sales uk@bio	-rad com	Email: antibody sales de@bio-rad.cor

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M442613:250528'

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