Datasheet: MCA1841 BATCH NUMBER 165061

Description:	MOUSE ANTI HUMAN CD117
Specificity:	CD117
Other names:	C-KIT, SCF-R
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	104D2
Isotype:	lgG1
Quantity:	0.1 mg

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	•			1/2 - 1/20	
	Immunohistology - Frozen			•		
	Immunohistology - Paraffin					
	ELISA					
	Immunoprecipitation			•		
	Western Blotting			•		
	Where this product has n	ot been te	sted for us	se in a particular tech	inique 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 product for use in their own					
	system using appropriate negative/positive controls.					
Target Species	Human					
Species Cross	Reacts with: Cynomolgus	s monkey,	Bovine			
Reactivity	N.B. Antibody reactivity a			ns mav varv between	species. Cross	
	reactivity is derived from		-		•	
	personal communications	-		•	•	
	further information.		onginator			
Product Form	Purified IgG - liquid					
Preparation	Purified IgG prepared by affinity chromatography					

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% sodium azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml
Immunogen	MOLM-1 megakaryocyte cell line
External Database Links	UniProt: P10721 Related reagents Entrez Gene: 3815 KIT Related reagents
RRID	AB_322902
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 10μ I of the suggested working dilution to label 10^6 cells in 100μ I.
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. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

	Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
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 #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1841 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12)	RPE	
Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>		
Goat Anti Mouse IgG (STAR76)	RPE	
Goat Anti Mouse IgG (STAR70)	<u>FITC</u>	
Rabbit Anti Mouse IgG (STAR13)	HRP	
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP	
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>	
Goat Anti Mouse IgG (STAR77)	HRP	
Goat Anti Mouse IgG (H/L) (STAR117)	Alk. Phos., DyLight®488, DyLight®550,	
	DyLight®650, DyLight®680, DyLight®800,	
	<u>FITC</u> , <u>HRP</u>	

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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.com		Email: antibody_sales_uk@bio-rad.com		Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M411733:221104'

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