

Datasheet: MCA1271AMO

Description:	MOUSE ANTI HUMAN CD33:Amethyst Orange
Specificity:	CD33
Format:	Amethyst Orange
Product Type:	Monoclonal Antibody
Clone:	WM53
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-</u> rad-antibodies.com/protocols.					
	Yes No Not Determined Suggested Dilutio					
	Flow Cytometry	•			Neat	
	Where this product ha	s not been te	ested for u	ise in a particular teo	chnique this does not	
	necessarily exclude its use in such procedures. Suggested working dilutions are given as					
	a guide only. It is reco	mmended the	at the use	r titrates the product	for use in their own	
	system using appropri	ate negative/	/positive c	ontrols.		
Target Species	Human					
Product Form	Purified IgG conjugate	ed to Amethy	st Orange	- liquid		
Max Ex/Em	Fluorophore	Excitation N	lax (nm)	Emission Max (nm)		
	Amethyst Orange	405		540		
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant					
Buffer Solution	Phosphate buffered saline					
Preservative	0.09% sodium azide (NaN ₃)					
Stabilisers	1% bovine serum albumin					
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml					
Immunogen	Human AML cells					

External Database Links	UniProt: P20138 Related reagents Entrez Gene: 945 CD33 Related reagents				
Synonyms	SIGLEC3				
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse NS1 myeloma cell line				
Specificity	Mouse anti Human CD33 antibody, clone WM53 recognizes the human CD33 cell surface glycoprotein. This antigen, considered to be specific for the myeloid lineage, has also been reported to be present on cells of lymphoid origin. Mouse anti Human CD33 antibody, clone WM53 immunoprecipitates a protein of ~75 kDa				
	from myeloid cells, a smaller protein of approximately 67 kDa has been observed in immunoprecipitates from lymphoid targets.				
Flow Cytometry	Use 10µl of the suggested working dilution to label 10^6 cells or $100µl$ whole blood				
References	 Use 10µl of the suggested working dilution to label 10⁶ cells or 100µl whole blood 1. Favaloro, E.J. <i>et al.</i> (1988) Further characterization of human myeloid antigens (gp160,95; gp150; gp67): investigation of epitopic heterogeneity and non-haemopoietic distribution using panels of monoclonal antibodies belonging to CD-11b, CD-13 and CD-33. Br J Haematol. 69 (2): 163-71. 2. Favaloro, E.J. <i>et al.</i> (1993) Differential expression of surface antigens on activated endothelium. Immunol Cell Biol. 71:571-81. 3. Pietschmann, P. <i>et al.</i> (2000) Surface markers and transendothelial migration of dendritic cells from elderly subjects. Exp Gerontol. 35: 213-24. 4. Vamvakopoulos, J. <i>et al.</i> (2002) Genetic control of LI-1beta bioactivity through differential regulation of the IL-1 receptor antagonist. Eur J Immunol. 32 (10): 2988-96. 5. Vamvakopoulos, J.E. & Green, C. (2003) HMG-CoA reductase inhibition aborts functional differentiation and triggers apoptosis in cultured primary human monocytes: a potential mechanism of statin-mediated vasculoprotection. BMC Cardiovasc Disord. 3: 6. 6. Dahl C <i>et al.</i> (2004) Human mast cells express receptors for IL-3, IL-5 and GM-CSF; a partial map of receptors on human mast cells cultured <i>in vitro</i>. Allergy. 59 (10): 1087-96. 7. Lajaunias, F. <i>et al.</i> (2005) Constitutive repressor activity of CD33 on human monocytes requires sialic acid recognition and phosphoinositide 3-kinase-mediated intracellular signaling. Eur J Immunol. 35: 243-51. 8. Lin, C.W. <i>et al.</i> (2005) CD94 1A transcripts characterize lymphoblastic lymphoma/leukemia of immature natural killer cell origin with distinct clinical features. Blood. 106 (10): 3567-74. 9. Hernández-Caselles, T. <i>et al.</i> (2006) A study of CD33 (SIGLEC-3) antigen expression and function on activated human T and NK cells: two isoforms of CD33 are generated by alternative splicing. J Leukoc Biol. 79: 46-58. 10. Biedermann, B. <i>et al.</i> (2006) Analysis o				

	 and absent from normal hematopoietic progenitors. Leuk Res. 11. Yasukawa, T. <i>et al.</i> (2012) Simple detection of surface antige applying distinct cell positioning with negative dielectrophoresiss 8830-6. 12. McCormack E <i>et al.</i> (2013) Multiplexed mAbs: a new strate time-domain imaging of acute myeloid leukemia. Blood. 121 (7 13. Hu, Z. <i>et al.</i> (2016) Self-assembled nanoparticles based on carboxymethyl chitosan conjugated with targeting antibody J W Mater. Sci. Ed. 31 (2): 446-53. 14. Hernández-Caselles T <i>et al.</i> (2019) CD33 (Siglec-3) Inhibite NKG2D/DAP10 Activating Pathway. J Immunol Res. 2019: 603 	gens on living cells by <u>Anal Chem. 84 (20):</u> gy in preclinical <u>): e34-42.</u> folic acid modified <u>/uhan Univ of Technol-</u> pry Function: Role in the		
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. This product is photosensitive and should be protected from light.			
Guarantee	12 months from date of despatch			
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1271AMO 10041			
Regulatory	For research purposes only			

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:Amethyst Orange (MCA928AMO)

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.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						

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