Datasheet: MCA1271SBUV445 BATCH NUMBER 100006394

Description:	MOUSE ANTI HUMAN CD33:StarBright UltraViolet 445			
Specificity:	CD33			
Format:	StarBright UltraViolet 445			
Product Type:	Monoclonal Antibody			
Clone:	WM53			
Isotype:	lgG1			
Quantity:	100 TESTS/0.5ml			

Product Details

Applications	This product has been reported to work in the following applications. This informati 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> .					
			lo	Not Determined	Suggested Dilution	
	Flow Cytometry	-			Neat	
	Where this product has	s not been teste	d for ı	use in a particular teo	chnique this does not	
	necessarily exclude its a guide only. It is recor system using appropria	nmended that th	ne use	er titrates the product	ng dilutions are given as for use in their own	
Target Species	Human					
Product Form	Purified IgG conjugated	d to StarBright L	JltraV	olet 445 - liquid		
Max Ex/Em	Fluorophore	Excitation Max	(nm)	Emission Max (nm)		
	StarBright UltraViolet 445	347		440	-	
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant					
Buffer Solution	Phosphate buffered saline					
Preservative	0.09% Sodium Azide (
Stabilisers	1% Bovine Serum Albumin					
	0.1% Pluronic F68					
	0.1% PEG 3350					

	0.05% Tween 20
Immunogen	Human AML cells
External Database Links	UniProt: <u>P20138</u> <u>Related reagents</u> Entrez Gene: <u>945</u> CD33 <u>Related reagents</u>
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 5ul of the suggested working dilution to label 10 ⁶ cells in 100ul. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.
References	 Favaloro, E.J. <i>et al.</i> (1987) Characterization of monoclonal antibodies to the human myeloid-differentiation antigen, gp67 (CD-33). <u>Dis Markers. 5 (4): 215-25.</u> 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. <u>Br J Haematol. 69 (2): 163-71.</u> 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. <u>J Leukoc Biol. 79: 46-58.</u> Biedermann, B. <i>et al.</i> (2006) Analysis of the CD33-related siglec family reveals that Siglec-9 is an endocytic receptor expressed on subsets of acute myeloid leukemia cells and absent from normal hematopoietic progenitors. <u>Leuk Res. 31: 211-20.</u> 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. <u>Eur J Immunol. 35: 243-51.</u> Pietschmann, P. <i>et al.</i> (2000) Surface markers and transendothelial migration of dendritic cells from elderly subjects. <u>Exp Gerontol. 35: 213-24.</u> Favaloro, E.J. <i>et al.</i> (2012) Simple detection of surface antigens on activated endothelium. <u>Immunol Cell Biol. 71:571-81.</u> Yasukawa, T. <i>et al.</i> (2012) Simple detection of surface antigens on living cells by applying distinct cell positioning with negative dielectrophoresis. <u>Anal Chem. 84 (20):</u>

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	lymphoma/leukemia of immature natural killer cell origin with distinct clinical features.
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	NKG2D/DAP10 Activating Pathway. <u>J Immunol Res. 2019: 6032141.</u>
Storage	Store at +4°C. DO NOT FREEZE.
	This product should be stored undiluted.
Guarantee	12 months from date of despatch
Acknowledgements	This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts
Health And Safety	Material Safety Datasheet documentation #20471 available at:
Information	https://www.bio-rad-antibodies.com/SDS/MCA1271SBUV445
	20471
Regulatory	For research purposes only

Related Products

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-ra	id.com	Email: antibody_sales_uk@bio-ra	id.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 'M395177:220321'

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