

Datasheet: MCA1271APC

BATCH NUMBER 150648

Description:	MOUSE ANTI HUMAN CD33:APC		
Specificity:	CD33		
Format:	APC		
Product Type:	Monoclonal Antibody		
Clone:	WM53		
Isotype:	lgG1		
Quantity:	100 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 - 1/10

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				
Product Form	Purified IgG conjuç	gated to Allophycocyanin	(APC) - lyophilised		
Reconstitution	Reconstitute with	1 ml distilled water			
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)		
	APC	650	661		
Preparation	Purified IgG prepa supernatant	red by affinity chromatog	raphy on Protein G from tissue culture		
Buffer Solution	Phosphate buffere	d saline			
Preservative	0.09% Sodium Azide				
Stabilisers	1% Bovine Serum Albumin				
	5% Sucrose				

łuman AML cells
UniProt: P20138 Related reagents Entrez Gene: 945 CD33 Related reagents
SIGLEC3
AB_322397
Spleen cells from immunized BALB/c mice were fused with cells of the mouse NS1 nyeloma cell line
Mouse anti Human CD33 antibody, clone WM53 recognizes the human CD33 cell urface 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 rom myeloid cells, a smaller protein of approximately 67 kDa has been observed in mmunoprecipitates from lymphoid targets.
Jse 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
. Favaloro, E.J. <i>et al.</i> (1987) Characterization of monoclonal antibodies to the human hyeloid-differentiation antigen, gp67 (CD-33). Dis Markers. 5 (4): 215-25. 2. 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. 3. 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. 3. 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. Leuk Res. 31: 211-20. 3. 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 ignaling. Eur J Immunol. 35: 243-51. 3. Pietschmann, P. <i>et al.</i> (2000) Surface markers and transendothelial migration of lendritic cells from elderly subjects. Exp Gerontol. 35: 213-24. 3. Favaloro, E.J. <i>et al.</i> (1993) Differential expression of surface antigens on activated andothelium. Immunol Cell Biol. 71:571-81.

<u>8830-6.</u>

- 9. Hu, Z. *et al.* (2016) Self-assembled nanoparticles based on folic acid modified carboxymethyl chitosan conjugated with targeting antibody <u>J Wuhan Univ of Technol-Mater. Sci. Ed. 31 (2): 446-53.</u>
- 10. Dahl C *et al.* (2004) Human mast cells express receptors for IL-3, IL-5 and GM-CSF; a partial map of receptors on human mast cells cultured *in vitro*. <u>Allergy. 59 (10): 1087-96.</u>
- 11. 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.
- 12. Vamvakopoulos, J. *et al.* (2002) Genetic control of IL-1beta bioactivity through differential regulation of the IL-1 receptor antagonist. <u>Eur J Immunol. 32 (10): 2988-96.</u>
- 13. Lin, C.W. *et al.* (2005) CD94 1A transcripts characterize lymphoblastic lymphoma/leukemia of immature natural killer cell origin with distinct clinical features. Blood. 106 (10): 3567-74.
- 14. McCormack E *et al.* (2013) Multiplexed mAbs: a new strategy in preclinical time-domain imaging of acute myeloid leukemia. <u>Blood. 121 (7): e34-42.</u>
- 15. Hernández-Caselles T *et al.* (2019) CD33 (Siglec-3) Inhibitory Function: Role in the NKG2D/DAP10 Activating Pathway. <u>J Immunol Res. 2019: 6032141.</u>

Storage

Prior to reconstitution store at +4°C. Following reconstitution 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	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA1271APC 20487
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:APC (MCA928APC)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

North & South Tel: +1 800 265 7376

America 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@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 'M375304:210104'

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