

Datasheet: MCA1710APC

BATCH NUMBER 157001

Description:	MOUSE ANTI HUMAN CD20:APC
Specificity:	CD20
Format:	APC
Product Type:	Monoclonal Antibody
Clone:	2H7
Isotype:	lgG2b
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
Immunofluorescence			•	

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				
Species Cross	Reacts with: Rhesu	us Monkey			
Reactivity	reactivity is derived	I from testing within our I cations from the originate	ons may vary between species. Cross aboratories, peer-reviewed publications ors. Please refer to references indicated		
Product Form	Purified IgG conjugated to Allophycocyanin (APC) - lyophilised				
Reconstitution	Reconstitute with 1 ml distilled water				
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)		

Buffer Solution	Phosphate buffered saline	
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin 5% Sucrose	
External Database Links	UniProt: P11836 Related reagents	
	Entrez Gene: 931 MS4A1 Related reagents	
Synonyms	CD20	
RRID	AB_324775	
Specificity	Mouse anti Human CD20 antibody, clone 2H7 recognizes the human CD20 cell surface antigen, a 33-37 kDa non-glycosylated phosphoprotein.	
	The CD20 antigen is expressed during pre-B-cell development. It is present on both resting and activated B-cells but is lost prior to terminal B-cell differentiation into plasma cells.	
	The epitope recognized by clone 2H7 has been mapped to the following sequence found in the large extracellular loop of human CD20: YNCEPANPSEKNSPST. Furthermore it appears that Mouse anti Human CD20 antibody, clone 2H7 only recognizes human CD20 in its native oligomeric form (Polyak et al. 2002).	
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells or cells or 100ul whole blood.	
References	 Chan, H.T. et al. (2003) CD20-induced lymphoma cell death is independent of both caspases and its redistribution into triton X-100 insoluble membrane rafts. Cancer Res. 63: 5480-9. Cragg, M.S. et al. (2003) Complement-mediated lysis by anti-CD20 mAb correlates with segregation into lipid rafts. Blood. 101: 1045-52. Jaramillo, M.C. et al. (2009) Increased manganese superoxide dismutase expression or treatment with manganese porphyrin potentiates dexamethasone-induced apoptosis in lymphoma cells. Cancer Res. 69: 5450-7. Teeling, J.L. et al. (2006) The biological activity of human CD20 monoclonal antibodies is linked to unique epitopes on CD20. J Immunol. 177 (1): 362-71. Polyak, M.J. et al. (2002) Alanine-170 and proline-172 are critical determinants for extracellular CD20 epitopes; heterogeneity in the fine specificity of CD20 monoclonal antibodies is defined by additional requirements imposed by both amino acid sequence 	
	and quaternary structure. <u>Blood. 1;99:3256-62.</u> 6. Greig, B. <i>et al.</i> (2014) Stabilization media increases recovery in paucicellular	

Cytom. 86: 135-8.

cerebrospinal fluid specimens submitted for flow cytometry testing. Cytometry B Clin

- 7. van den Akker, E. *et al.* (2010) The majority of the in vitro erythroid expansion potential resides in CD34(-) cells, outweighing the contribution of CD34(+) cells and significantly increasing the erythroblast yield from peripheral blood samples. <u>Haematologica. 95:</u> 1594-8.
- 8. Jaramillo, M.C. *et al.* (2015) Manganese (III) meso-tetrakis N-ethylpyridinium-2-yl porphyrin acts as a pro-oxidant to inhibit electron transport chain proteins, modulate bioenergetics, and enhance the response to chemotherapy in lymphoma cells. <u>Free Radic Biol Med.</u> 83: 89-100.
- 9. Cecchinato, V. *et al.* (2017) Impairment of CCR6+ and CXCR3+ Th Cell Migration in HIV-1 Infection Is Rescued by Modulating Actin Polymerization. <u>J Immunol. 198 (1):</u> 184-195.
- 10. Kohler, S.L. *et al.* (2016) Germinal Center T Follicular Helper Cells Are Highly Permissive to HIV-1 and Alter Their Phenotype during Virus Replication. <u>J Immunol. 196</u> (6): 2711-22.
- 11. Grobárová V *et al.* (2016) Quambalarine B, a Secondary Metabolite from *Quambalaria cyanescens* with Potential Anticancer Properties. J Nat Prod. 79 (9): 2304-14.
- 12. Popov, J. *et al.* (2017) Unique therapeutic properties and preparation methodology of multivalent rituximab-lipid nanoparticles. <u>Eur J Pharm Biopharm.</u> 117: 256-69.
- 13. Sieg, M. *et al.* (2019) A New Genotype of Feline Morbillivirus Infects Primary Cells of the Lung, Kidney, Brain and Peripheral Blood. <u>Viruses. 11 (2) Feb 09 [Epub ahead of print]</u>.

Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.	
Guarantee	12 months from date of despatch	
Health And Safety Information	, material carety Battachest accumentation //2010/1 available at:	
Regulatory	For research purposes only	

Related Products

Recommended Negative Controls

MOUSE IgG2b NEGATIVE CONTROL:APC (MCA691APC)

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 'M376232:210126'

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