

Datasheet: MCA1710SBB765

Description:	MOUSE ANTI HUMAN CD20:StarBright Blue 765				
Specificity:	CD20				
Format:	StarBright Blue 765				
Product Type:	Monoclonal Antibody				
Clone:	2H7				
Isotype:	lgG2b				
Quantity:	100 TESTS/0.5ml				

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	•			Neat			
	Where this product 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 product for use in their own system using appropriate negative/positive controls.							
Target Species	Human							
Species Cross Reactivity	Reacts with: Rhesus Monkey N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.							
Product Form	Purified IgG conjugated to StarBright Blue 765 - liquid							
Max Ex/Em	FluorophoreEStarBright Blue 765	Excitation Ma 476	x (nm)	Emission Max (nm) 764				
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant							
Buffer Solution	Phosphate buffered salir	ne						

Preservative Stabilisers External Database Links	0.09% sodium azide (NaN ₃) 1% bovine serum albumin 0.1% Pluronic F68 0.1% PEG 3350 0.05% Tween 20 UniProt:
	P11836 Related reagents
	Entrez Gene:
	931 MS4A1 Related reagents
Synonyms	CD20
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 <i>et al.</i> 2002).
Flow Cytometry	Use 5µl of the suggested working dilution to label 10 ⁶ cells in 100µl. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.
References	1. Chan, H.T. <i>et al.</i> (2003) CD20-induced lymphoma cell death is independent of both caspases and its redistribution into triton X-100 insoluble membrane rafts. <u>Cancer Res.</u> 63: 5480-9.
	2. Cragg, M.S. <i>et al.</i> (2003) Complement-mediated lysis by anti-CD20 mAb correlates with segregation into lipid rafts. <u>Blood. 101: 1045-52.</u>
	 Jaramillo, M.C. <i>et al.</i> (2009) Increased manganese superoxide dismutase expression or treatment with manganese porphyrin potentiates dexamethasone-induced apoptosis in lymphoma cells. <u>Cancer Res. 69: 5450-7.</u>
	4. Teeling, J.L. <i>et al.</i> (2006) The biological activity of human CD20 monoclonal antibodies
	is linked to unique epitopes on CD20. <u>J Immunol. 177 (1): 362-71.</u> 5. Polyak, M.J. & Deans, J.P. (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. 99 (9): 3256-62.</u>
	6. Greig, B. <i>et al.</i> (2014) Stabilization media increases recovery in paucicellular cerebrospinal fluid specimens submitted for flow cytometry testing. Cytometry B Clin
	<u>Cytom. 86: 135-8.</u>
	7. van den Akker, E. et al. (2010) The majority of the in vitro erythroid expansion potential

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	d.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 'M411167:221101'

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