

Datasheet: MCA1847A647

Description:	MOUSE ANTI HUMAN CD81:Alexa Fluor® 647				
Specificity:	CD81				
Other names:	TAPA-1				
Format:	ALEXA FLUOR® 647				
Product Type:	Monoclonal Antibody				
Clone:	1D6				
Isotype:	lgG1				
Quantity:	100 TESTS/1ml				

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 Dete	ermined	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: Chimpanzee, Sheep, Goat 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 Alexa Fluor® 647 - liquid								
Max Ex/Em	Fluorophore	Excitation Max	(nm) Emission M	Max (nm)					
	Alexa Fluor®647	650	665	5					
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant								
Buffer Solution	Phosphate buffered sa	aline							

Preservative Stabilisers	0.09% sodium azide (NaN ₃) 1% bovine serum albumin
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml
Immunogen	OCI-LY8 cells aggregated by 5A6 (another CD81 antibody)
External Database Links	UniProt: <u>P60033</u> <u>Related reagents</u> Entrez Gene: <u>975</u> CD81 <u>Related reagents</u>
Synonyms	TAPA1, TSPAN28
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse PX3-Ag.8.653 myeloma cell line
Specificity	 Mouse anti Human CD81 antibody, clone 1D6 recognizes human CD81, a 26 kDa cell surface antigen also known as TAPA-1, and a member of the tetraspanin family. CD81 is widely expressed on human leucocytes and appears to be involved in a variety of cellular leucocytes including activation, proliferation and differentiation. Mouse anti Human CD81 antibody, clone 1D6 is a potent CD81 reagent, induces homotypic adhesion and has powerful anti-proliferative effects.
Flow Cytometry	Use 10μ I of the suggested working dilution to label 10^6 cells in 100μ I
References	 Schick, M.R. & Levy, S. (1993) The TAPA-1 molecule is associated on the surface of B cells with HLA-DR molecules. J Immunol. 151 (8): 4090-7. Levy, S. <i>et al.</i> (1998) CD81 (TAPA-1): a molecule involved in signal transduction and cell adhesion in the immune system. Annu Rev Immunol. 16: 89-109. Flint, M. <i>et al.</i> (1999) Characterization of hepatitis C virus E2 glycoprotein interaction with a putative cellular receptor, CD81. J Virol. 73:6235-44. Davis, W.C. <i>et al.</i> (2007) Use of flow cytometry to identify monoclonal antibodies that recognize conserved epitopes on orthologous leukocyte differentiation antigens in goats, llamas, and rabbits. Vet Immunol Immunopathol. 119: 123-30. Griebel, P.J. <i>et al.</i> (2007) Cross-reactivity of mAbs to human CD antigens with sheep leukocytes. Vet Immunol Immunopathol. 119: 115-22. Rohlena, J. <i>et al.</i> (2009) Endothelial CD81 is a marker of early human atherosclerotic plaques and facilitates monocyte adhesion. <u>Cardiovasc Res. 81: 187-96.</u> Parthasarathy, V. <i>et al.</i> (2009) Distinct roles for tetraspanins CD9, CD63 and CD81 in the formation of multinucleated giant cells. <u>Immunology. 127: 237-48.</u> Welton, J.L. <i>et al.</i> (2010) Proteomics analysis of bladder cancer exosomes. <u>Mol Cell Proteomics. 9: 1324-38.</u> Ventress, J.K. <i>et al.</i> (2016) Peptides from Tetraspanin CD9 Are Potent Inhibitors of

		<u>One. 11 (7): e0160387.</u> oxic Adipocytes and Obese <u>utr Food Res. 62 (5)Feb 20</u>					
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.					
		-	zers is no		•	he antibody. Storage in tosensitive and should be	
Guarante	e	12 months from	m date o	f despatch			
Acknowle	edgements	This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchased product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or outlicensing@thermofisher.com					
Health Ar Informati	-	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1847A647 10041					
Regulato	ry	For research p	ourposes	only			
Related Products Recommended Negative Controls MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 (MCA928A647) Recommended Useful Reagents HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)							
lorth & South America	Tel: +1 800 265 Fax: +1 919 878 Email: antibody_		rldwide า	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bid	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 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 'M437863:250319'

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