

Datasheet: MCA1847P647

BATCH NUMBER 1611

Description:	MOUSE ANTI HUMAN CD81:RPE-Alexa Fluor® 647
Specificity:	CD81
Other names:	TAPA-1
Format:	RPE-ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	1D6
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.biorad-antibodies.com/protocols.

	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	Reacts with: Chimpanzee, Sheep, Goat					
Reactivity	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 RPE-Alexa Fluor 647 - lyophilized					
Reconstitution	Reconstitute with 1.0 ml distilled water					
	Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution					
Max Ex/Em	Fluorophore Excitation Max (nm) Emission Max (nm)					

	RPE-Alexa Fluor®647 488nm laser	496	667			
	RPE-Alexa Fluor®647 561nm laser	546	667			
Preparation	Purified IgG prepared by affinity chromatography on Protein A					
Buffer Solution	Phosphate buffered sa	aline				
Preservative Stabilisers	0.09% Sodium Azide (1% Bovine Serum Alb 5% Sucrose					
Immunogen	OCI-LY8 cells aggregated by 5A6 (another CD81 antibody)					
External Database Links	UniProt: P60033 Relate	d reagents				
	Entrez Gene: 975 CD81 Relat	ted reagents				
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	surface antigen also k	nown as TAPA-1, and numan leucocytes and	d a member of the to d appears to be invo	iman CD81, a 26 kDa cell etraspanin family. CD81 is olved in a variety of cellular		
	Mouse anti Human CE homotypic adhesion a	•	•	I reagent, induces		
Flow Cytometry	Use 10ul of the sugge	sted working dilution	to label 10 ⁶ cells in	100ul		
References	cells with HLA-DR mol 2. Levy, S. <i>et al.</i> (1998 cell adhesion in the im 3. Griebel, P.J. <i>et al.</i> (2 leukocytes. Vet Immur 4. Welton, J.L. <i>et al</i> (2 Proteomics. 9: 1324-3 5. Davis, W.C. <i>et al.</i> (2 recognize conserved ellamas, and rabbits. Ve	lecules. <u>J Immunol. 1</u> 8) CD81 (TAPA-1): a amune system. <u>Annu</u> 2007) Cross-reactivita nol Immunopathol. 11 010) Proteomics and 8. 2007) Use of flow cyteritopes on orthologoet Immunol Immunopathol.	molecule involved in Rev Immunol. 16: 8 y of mAbs to human 9: 115-22. Ilysis of bladder candometry to identify motous leukocyte differentathol. 119: 123-30.	ociated on the surface of B signal transduction and 9-109. CD antigens with sheep cer exosomes. Mol Cell phoclonal antibodies that intiation antigens in goats,		

with a putative cellular receptor, CD81. J Virol. 73:6235-44.

- 7. Parthasarathy, V. *et al.* (2009) Distinct roles for tetraspanins CD9, CD63 and CD81 in the formation of multinucleated giant cells. lmmunology.127:237-48.
- 8. Rohlena, J. *et al.* (2009) Endothelial CD81 is a marker of early human atherosclerotic plagues and facilitates monocyte adhesion. Cardiovasc Res. 81: 187-96.
- 9. Ventress, J.K. *et al.* (2016) Peptides from Tetraspanin CD9 Are Potent Inhibitors of Staphylococcus Aureus Adherence to Keratinocytes. <u>PLoS One. 11 (7): e0160387.</u>
- 10. Mleczko, J. *et al.* (2018) Extracellular Vesicles from Hypoxic Adipocytes and Obese Subjects Reduce Insulin-Stimulated Glucose Uptake. <u>Mol Nutr Food Res. 62 (5)Feb 20</u> [Epub ahead of print].

Storage

Prior to reconstitution store at +4°C.

After reconstitution store at +4°C.

DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light.

Guarantee

12 months from date of despatch

Acknowledgements

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Health And Safety Information

Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA1847P647

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Regulatory

For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL: RPE-Alexa Fluor® 647 (MCA928P647)

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

Printed on 18 Jan 2024

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