

Datasheet: MCA1847PE

Description:	MOUSE ANTI HUMAN CD81:RPE
Specificity:	CD81
Other names:	TAPA-1
Format:	RPE
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.bio-rad-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: Chimp	oanzee, Sheep, Goat					
Reactivity	reactivity is derived	ons may vary between speci aboratories, peer-reviewed po ors. Please refer to references	viewed publications or				
Product Form	Purified IgG conjug	ated to R. Phycoerythrin	(RPE) - 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 tha	the vial is gently mixed after	reconstitution.			
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)				

Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% sodium azide (NaN ₃) 1% bovine serum albumin 5% sucrose
Immunogen	OCI-LY8 cells aggregated by 5A6 (another CD81 antibody)
External Database Links	UniProt: P60033 Related reagents
	Entrez Gene: 975 CD81 Related 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	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 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl
References	1. Schick, M.R. & Levy, S. (1993) The TAPA-1 molecule is associated on the surface of B cells with HLA-DR molecules. <u>J Immunol. 151 (8): 4090-7.</u> 2. Levy, S. <i>et al.</i> (1998) CD81 (TAPA-1): a molecule involved in signal transduction and cell adhesion in the immune system. <u>Annu Rev Immunol. 16: 89-109.</u> 3. Flint, M. <i>et al.</i> (1999) Characterization of hepatitis C virus E2 glycoprotein interaction with a putative cellular receptor, CD81. <u>J Virol. 73:6235-44.</u> 4. 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. <u>Vet Immunol Immunopathol. 119: 123-30.</u> 5. Griebel, P.J. <i>et al.</i> (2007) Cross-reactivity of mAbs to human CD antigens with sheep leukocytes. <u>Vet Immunol Immunopathol. 119: 115-22.</u> 6. 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> 7. 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>

8. Welton, J.L. et al (2010) Proteomics analysis of bladder cancer exosomes. Mol Cell Proteomics. 9: 1324-38.

9. Ventress, J.K. et al. (2016) Peptides from Tetraspanin CD9 Are Potent Inhibitors of Staphylococcus Aureus Adherence to Keratinocytes. PLoS One. 11 (7): e0160387.

10. Mleczko, J. et al. (2018) Extracellular Vesicles from Hypoxic Adipocytes and Obese Subjects Reduce Insulin-Stimulated Glucose Uptake. Mol Nutr Food Res. 62 (5)Feb 20 [Epub ahead of print].

Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this

product contain a precipitate we recommend microcentrifugation before use.

Guarantee 12 months from date of despatch **Health And Safety** Material Safety Datasheet documentation #20487 available at: Information https://www.bio-rad-antibodies.com/SDS/MCA1847PE 20487

Regulatory For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL: RPE (MCA928PE)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

America

North & South Tel: +1 800 265 7376 Fax: +1 919 878 3751 Worldwide

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739

Europe

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Email: antibody_sales_us@bio-rad.com

Email: antibody_sales_uk@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 'M419454:230616'

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