

Datasheet: MCA1148PE BATCH NUMBER INN1701

Description:	MOUSE ANTI HUMAN CD71:RPE
Specificity:	CD71
Other names:	TRANSFERRIN RECEPTOR
Format:	RPE
Product Type:	Monoclonal Antibody
Product Type: Clone:	Monoclonal Antibody DF1513

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 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 Reactivity	Reacts with: Rhesus Monkey, Mustelid, Ferret 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 R. Phycoerythrin (RPE) - Iyophilized					
Reconstitution	Reconstitute with 1 ml distilled water					
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)			
	RPE 488nm laser	496	578			
Preparation	Purified IgG prepared	by affinity chromato	graphy on Protein A fron	n tissue culture		

	supernatant.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide1% Bovine Serum Albumin5% Sucrose
Immunogen	KGI cell line.
External Database Links	UniProt: <u>P02786</u> <u>Related reagents</u> Entrez Gene: <u>7037</u> TFRC <u>Related reagents</u>
RRID	AB_1125285
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse NSI myeloma cell line.
Specificity	Mouse anti Human CD71 antibody, clone DF1513 recognizes the human CD71 cell surface antigen, a ~190 kDa homodimeric glycoprotein expressed by proliferating cells. CD71 is also known as the transferrin receptor. Mutation of the TFRC gene has been implicated in the development of Immunodeficiency 46 (IMD46) a combined immunodeficiency characterized by early onset chronic diarrhea, recurrent infections and intermittent neutropenia and thrombocytopenia (Jabara <i>et al.</i> 2016)
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	 Sopper, S. <i>et al.</i> (1997) Lymphocyte subsets and expression of differentiation markers in blood and lymphoid organs of rhesus monkeys. <u>Cytometry. 29 (4): 351-62.</u> Martel, C.J. & Aasted, B. (2009) Characterization of antibodies against ferret immunoglobulins, cytokines and CD markers. <u>Vet Immunol Immunopathol. 132:109-15.</u> Meng, J. <i>et al.</i> (2011) Contribution of human muscle-derived cells to skeletal muscle regeneration in dystrophic host mice. <u>PLoS One. 6(3):e17454.</u> Stockwin, L.H. <i>et al.</i> (2009) Artemisinin dimer anticancer activity correlates with heme-catalyzed reactive oxygen species generation and endoplasmic reticulum stress induction. <u>Int J Cancer. 125: 1266-75.</u> Janes, P.W. <i>et al.</i> (1999) Aggregation of lipid rafts accompanies signaling via the T cell antigen receptor. <u>J Cell Biol. 147: 447-61.</u> Makoveichuk, E. <i>et al.</i> (2012) Inactivation of lipoprotein lipase occurs on the surface of THP-1 macrophages where oligomers of angiopoietin-like protein 4 are formed. <u>Biochem</u> <u>Biophys Res Commun. 425:138-43.</u> Procaccini, C. <i>et al.</i> (2012) Leptin-induced mTOR activation defines a specific molecular and transcriptional signature controlling CD4+ effector T cell responses. J <u>Immunol. 189: 2941-53.</u>

	 Weissgerber, P. <i>et al.</i> (2003) Investigation of mechanisms involved in phagocytosis of Legionella pneumophila by human cells. <u>FEMS Microbiol Lett. 219 (2): 173-9.</u> Trakarnsanga, K. <i>et al.</i> (2017) An immortalized adult human erythroid line facilitates sustainable and scalable generation of functional red cells. <u>Nat Commun. 8: 14750.</u>
Storage	Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.
	DO NOT FREEZE.
	This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA1148PE 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)

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	d.com	Email: antibody_sales_uk@bio-r	ad.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 'M375276:210104'

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