## Datasheet: MCA1148 BATCH NUMBER 159118

Description:	MOUSE ANTI HUMAN CD71
Specificity:	CD71
Other names:	TRANSFERRIN RECEPTOR
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	DF1513
lsotype:	lgG1
Quantity:	0.2 mg

## **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	•			1/10 - 1/25
	Immunohistology - Frozen		•		
	Immunohistology - Paraffin				
	ELISA				
	Immunoprecipitation				
	Western Blotting			-	
	Immunofluorescence	•			
	Where this antibody has	not been	tested for	r use in a particular teo	hnique this does not
	necessarily exclude its us	se in sucł	n procedu	res. Suggested workin	g dilutions are given as
	a guide only. It is recomn system using appropriate				for use in their own
Target Species	Human				
Species Cross Reactivity	Reacts with: Rhesus Monkey, Mustelid, Ferret <b>N.B.</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.				wed publications or
Product Form	Purified IgG - liquid				

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		
Carrier Free	Yes		
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml		
Immunogen	KGI cell line.		
External Database Links	UniProt:       P02786     Related reagents		
	Entrez Gene: <u>7037</u> TFRC <u>Related reagents</u>		
RRID	AB_1125283		
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse NSI myeloma cell line.		
Specificity	<b>Mouse anti Human CD71 antibody, clone DF1513</b> 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 <sup>6</sup> cells in 100ul.		
References	<ol> <li>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></li> <li>Martel, C.J. &amp; Aasted, B. (2009) Characterization of antibodies against ferret immunoglobulins, cytokines and CD markers. <u>Vet Immunol Immunopathol. 132:109-15.</u></li> <li>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></li> <li>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></li> <li>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></li> <li>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></li> </ol>		

	Biophys Res Commun. 425:138-43.				
	7. Procaccini, C. et al. (2012) Leptin-induced mTOR activation defines a specific				
	molecular and transcriptional signature controlling CD4+ effector T cell responses. $\underline{J}$				
	Immunol. 189: 2941-53.				
	8. Weissgerber, P. et al. (2003) Investigation of mechanisms involved in phagocytosis of				
	Legionella pneumophila by human cells. FEMS Microbiol Lett. 219 (2): 173-9.				
	9. Trakarnsanga, K. <i>et al.</i> (2017) An immortalized adult human erythroid line facilitates				
	sustainable and scalable generation of functional red cells. Nat	Commun. 8: 14750.			
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.				
	Avoid repeated freezing and thawing as this may denature the	antibody. Storage in			
	frost-free freezers is not recommended.	anabody. Otorage in			
Guarantee	12 months from date of despatch				
Health And Safety	Material Safety Datasheet documentation #10040 available at:				
Information	https://www.bio-rad-antibodies.com/SDS/MCA1148				
	10040				
Pogulatory					
Regulatory	For research purposes only				

## **Related Products**

## **Recommended Secondary Antibodies**

Rabbit Anti Mouse IgG (STAR12)	RPE			
Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>				
Goat Anti Mouse IgG (STAR76)	RPE			
Rabbit Anti Mouse IgG (STAR13)	HRP			
Goat Anti Mouse IgG (STAR70)	<u>FITC</u>			
Goat Anti Mouse IgG (H/L) (STAR117)	Alk. Phos., DyLight®488, DyLight®550,			
	DyLight®650, DyLight®680, DyLight®800,			
	FITC, HRP			
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>			
Goat Anti Mouse IgG (STAR77)	HRP			
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP			

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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	Email: antibody_sales_us@bio-rac	d.com	Email: antibody_sales_uk@bio-rac	l.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 'M383021:210513'

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