

Datasheet: MCA2330PET

Description:	MOUSE ANTI HUMAN CD312:RPE		
Specificity:	CD312		
Other names:	EMR2		
Format:	RPE		
Draduct Tone	Monoclonal Antibody		
Product Type:	Monocional Antibody		
Clone:	2A1		
	,		

### **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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	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. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human		
Product Form	Purified IgG conjuga	ated to R. Phycoerythrir	n (RPE) - lyophilized
Reconstitution	Reconstitute in 0.25	ml disilled water	
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
Preparation	Purified IgG prepare	ed by affinity chromatog	raphy on Protein G fi
Buffer Solution	Phosphate buffered	saline	
Preservative	0.09% Sodium Azid	e	
Stabilisers	1% Bovine Serui	m Albumin	
	5% Sucrose		

**External Database** 

Links

**UniProt**:

Q9UHX3 Related reagents

**Entrez Gene:** 

### 30817 EMR2 Related reagents

Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the mouse SP2/0 myeloma cell line.
Specificity	Mouse anti Human CD312 antibody, clone 2A1 recognizes human EMR2, a member of the epidermal growth factor-seven transmembrane (EGF-TM7) family of proteins, which is closely related to CD97. EMR2, also known as CD312, is predominantly expressed on myeloid dendritic cells, monocytes and tissue macrophages. Various isoforms of EMR2 have been documented. The ligand for the largest isoform of EMR2 has recently been identified as chrondroitin sulphate, which binds to the fourth EGF-like module of EMR2. Clone 2A1 specifically recognizes the stalk region of EMR2.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
References	<ol> <li>Kwakkenbos, M.J. et al. (2002) The human EGF-TM7 family member EMR2 is a heterodimeric receptor expressed on myeloid cells. J Leukoc Biol. 71 (5): 854-62.</li> <li>Stacey, M. et al. (2003) The epidermal growth factor-like domains of the human EMR2 receptor mediate cell attachment through chondroitin sulfate glycosaminoglycans. Blood. 102 (8): 2916-24.</li> <li>Yona, S. et al. (2008) Ligation of the adhesion-GPCR EMR2 regulates human neutrophil function. FASEB J. 22 (3): 741-51.</li> <li>Lin, H.H. et al. (2004) Autocatalytic cleavage of the EMR2 receptor occurs at a conserved G protein-coupled receptor proteolytic site motif. J Biol Chem. 279 (30): 31823-32.</li> <li>Huang, Y.S. et al. (2018) Membrane-association of EMR2/ADGRE2-NTF is regulated by</li> </ol>
	site-specific N-glycosylation. Sci Rep. 8 (1): 4532.
Further Reading	1. Kwakkenbos, M.J. <i>et al.</i> (2004) The EGF-TM7 family: a postgenomic view. <u>Immunogenetics. 55</u> (10): 655-66.
Storage	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.
Shelf Life	12 months from date of reconstitution.
Health And Safety Information	Material Safety Datasheet documentation #10075 available at: 10075: https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf
Regulatory	For research purposes only

# **Related Products**

# **Recommended Negative Controls**

MOUSE IgG1 NEGATIVE CONTROL:RPE (MCA928PE)

## **Recommended Useful Reagents**

<u>HUMAN SEROBLOCK (BUF070A)</u> <u>HUMAN SEROBLOCK (BUF070B)</u> North & South Tel: +1 800 265 7376 America

Worldwide Fax: +1 919 878 3751

Email: antibody\_sales\_us@bio-rad.com

Tel: +44 (0)1865 852 700

Europe Fax: +44 (0)1865 852 739

Email: antibody\_sales\_uk@bio-rad.com

'M323663:180727'

Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50

Email: antibody\_sales\_de@bio-rad.com

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