

Datasheet: MCA4645PE

Description:	MOUSE ANTI HUMAN CD319:RPE
Specificity:	CD319
Other names:	CRACC
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	162
Isotype:	IgG2b
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		
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide (NaN ₃)		
Stabilisers	1% Bovine Serum Albumin		
	5% Sucrose		
Immunogen	CD319 - HulgG fusion protein.		
External Database Links	UniProt: Q9NQ25 Related reagents		

Entrez Gene:[57823](#) SLAMF7 [Related reagents](#)

Synonyms	CS1
Specificity	Mouse anti Human CD319 antibody, clone 162 recognizes human CD319, otherwise known as CRACC (CD2-like receptor-activating cytotoxic cells), a type I transmembrane protein and member of the CD2 receptor family, expressed by natural killer (NK) cells, cytotoxic lymphocytes and activated B cells. Unlike the CD2 family receptors 2B4 and NTB-A, which trigger NK cell-mediated cytotoxicity through the recruitment of the adaptor protein SAP (SLAM-associated protein); CD319 has been shown to activate cytotoxicity through a unique SAP-independent ERK-mediated signalling pathway, through association with, and subsequent phosphorylation by, the adaptor protein EAT-2.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.
References	1. Bouchon, A. <i>et al.</i> (2001) Activation of NK cell-mediated cytotoxicity by a SAP-independent receptor of the CD2 family. J Immunol. 167 (10): 5517-21. 2. Tassi, I. & Colonna, M. (2005) The cytotoxicity receptor CRACC (CS-1) recruits EAT-2 and activates the PI3K and phospholipase Cgamma signaling pathways in human NK cells. J Immunol. 175 (12): 7996-8002. 3. Kawano, Y. <i>et al.</i> (2013) Hypoxia reduces CD138 expression and induces an immature and stem cell-like transcriptional program in myeloma cells. Int J Oncol. 43 (6): 1809-16. 4. Pojero, F. <i>et al.</i> (2016) Utility of CD54, CD229, and CD319 for the identification of plasma cells in patients with clonal plasma cell diseases. Cytometry B Clin Cytom. 90 (1): 91-100.
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. 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 IgG2b NEGATIVE CONTROL:RPE \(MCA691PE\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)[HUMAN SEROBLOCK \(BUF070B\)](#)

"M300820:170106"

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