

## Datasheet: MCA4645PET

<b>Description:</b>	MOUSE ANTI HUMAN CD319:RPE
<b>Specificity:</b>	CD319
<b>Other names:</b>	CRACC
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	162
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	25 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](http://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.

<b>Target Species</b>	Human		
<b>Product Form</b>	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
<b>Reconstitution</b>	Reconstitute with 0.25ml distilled water		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	RPE 488nm laser	496	578
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )		
<b>Stabilisers</b>	1% Bovine Serum Albumin 5% Sucrose		
<b>Immunogen</b>	CD319 - HuIgG fusion protein.		
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">Q9NQ25</a> <a href="#">Related reagents</a>		

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

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<b>Synonyms</b>	CS1
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<b>Specificity</b>	<p><b>Mouse anti Human CD319 antibody, clone 162</b> 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.</p> <p>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.</p>
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<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul.
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<b>References</b>	<ol style="list-style-type: none"><li>1. Bouchon, A. <i>et al.</i> (2001) Activation of NK cell-mediated cytotoxicity by a SAP-independent receptor of the CD2 family. <a href="#">J Immunol. 167 (10): 5517-21.</a></li><li>2. Tassi, I. &amp; 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. <a href="#">J Immunol. 175 (12): 7996-8002.</a></li><li>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. <a href="#">Int J Oncol. 43 (6): 1809-16.</a></li><li>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. <a href="#">Cytometry B Clin Cytom. 90 (1): 91-100.</a></li></ol>
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<b>Storage</b>	<p>Prior to reconstitution store at +4°C.</p> <p>After reconstitution store at +4°C.</p> <p>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.</p>
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<b>Shelf Life</b>	12 months from date of reconstitution.
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10075 available at: 10075: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf</a>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL:RPE \(MCA691PE\)](#)

### Recommended Useful Reagents

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

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

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