

## Datasheet: MCA4645A647

<b>Description:</b>	MOUSE ANTI HUMAN CD319:Alexa Fluor® 647
<b>Specificity:</b>	CD319
<b>Other names:</b>	CRACC
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	162
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	100 TESTS/1ml

## 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 - 1/10

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 Alexa Fluor®647- liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	Alexa Fluor®647	650	665
<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 Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05mg/ml		

**Immunogen** CD319 - HulgG fusion protein.

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**External Database**

**Links**

**UniProt:**

[Q9NQ25](#) [Related reagents](#)

**Entrez Gene:**

[57823](#) SLAMF7 [Related reagents](#)

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**Synonyms**

CS1

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**RRID**

AB\_1628808

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**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.

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**Flow Cytometry**

Use 10ul of the suggested working dilution to label  $1 \times 10^6$  cells in 100ul.

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**References**

1. Bouchon, A. *et al.* (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. *et al.* (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. *et al.* (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.](#)
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**Storage**

Store at +4°C or at -20°C if preferred.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee**

12 months from date of despatch

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**Acknowledgements**

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**Health And Safety Information**      Material Safety Datasheet documentation #10041 available at:  
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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**Regulatory**                      For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA691A647\)](#)

### Recommended Useful Reagents

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

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
'M367803:200529'

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