

Datasheet: MCA4645FT

Description:	ion: MOUSE ANTI HUMAN CD319:FITC			
Specificity:	CD319			
Other names:	CRACC			
Format:	FITC			
Product Type:	Monoclonal Antibody			
Clone:	162			
Isotype:	lgG2b			
Quantity:	25 μg			

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	-			

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.

Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer				
Max Ex/Em	Fluorophore	Fluorophore Excitation Max (nm) Emission Max (nm			
	FITC	490	525		
eparation	Purified IaG prepar		ranky an Dratain C		
	supernatant	ed by affinity chromatogi	apny on Protein G		
iffer Solution	•		apny on Protein G		
	supernatant	d saline	apriy on Protein G		
ruffer Solution reservative tabilisers	supernatant Phosphate buffered	d saline de (NaN ₃)	apny on Protein G		

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CD319 - HulgG fusion protein.

External Database

Links

UniProt:

Q9NQ25 Related reagents

Entrez Gene:

57823 SLAMF7 Related reagents

Synonyms

CS₁

RRID

AB 2188100

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 1x10⁶ cells in 100ul.

References

- 1. Bouchon, A. *et al.* (2001) Activation of NK cell-mediated cytotoxicity by a SAP-independent receptor of the CD2 family. <u>J Immunol. 167 (10): 5517-21.</u>
- 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. <u>Int J Oncol. 43 (6): 1809-16.</u>
- 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. <u>Cytometry B Clin Cytom. 90 (1): 91-100.</u>

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.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10041 available at:

10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf

Related Products

Recommended Negative Controls

MOUSE IgG2b NEGATIVE CONTROL:FITC (MCA691F)

Email: antibody_sales_us@bio-rad.com

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Worldwide

Tel: +44 (0)1865 852 700

Europe

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

Fax: +44 (0)1865 852 739 Fax: +49 (0) 8 Email: antibody_sales_uk@bio-rad.com Email: antibody_sales_uk@bio-rad.com

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