

Datasheet: MCA5934F

**BATCH NUMBER 158123**

<b>Description:</b>	RAT ANTI MOUSE JAM-C:FITC
<b>Specificity:</b>	JAM-C
<b>Other names:</b>	JAM-3
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	CRAM-19 H36
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	0.1 mg

## 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
Immunofluorescence	▪			

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** Mouse

**Species Cross Reactivity** Reacts with: Human  
**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

**Product Form** Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525

**Preparation** Purified IgG prepared by affinity chromatography on Protein A 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 0.1 mg/ml
<b>Immunogen</b>	Recombinant soluble JAM-C.
<b>External Database Links</b>	<p><b>UniProt:</b></p> <p><a href="#">Q9D8B7</a>    <a href="#">Related reagents</a></p> <p><a href="#">Q9BX67</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b></p> <p><a href="#">83964</a>    Jam3    <a href="#">Related reagents</a></p> <p><a href="#">83700</a>    JAM3    <a href="#">Related reagents</a></p>
<b>Fusion Partners</b>	Spleen cells from immunised Fischer rats were fused with cells of the Sp2/0 myeloma cell line.
<b>Specificity</b>	<p><b>Rat anti Mouse JAM-C, clone CRAM-19 H36</b> recognizes mouse and human Junctional adhesion molecule C (JAM-C), also known as JAM-3 and, historically, as JAM-2.</p> <p>JAM-C is expressed at junctions between endothelial and epithelial cells, as well as on leukocytes, platelets, vascular smooth muscle cells and fibroblasts, amongst other cell types. It plays a role in tight junctions and inflammatory processes and interacts with JAM-A and JAM-B.</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Aurrand-lions, M. <i>et al.</i> (2001) JAM-2, a novel immunoglobulin superfamily molecule, expressed by endothelial and lymphatic cells. <a href="#">J Biol Chem. 276 (4): 2733-41.</a></li> <li>2. Johnson-léger, C.A. <i>et al.</i> (2002) Junctional adhesion molecule-2 (JAM-2) promotes lymphocyte transendothelial migration. <a href="#">Blood. 100 (7): 2479-86.</a></li> <li>3. Morita, Y. <i>et al.</i> (2010) Heterogeneity and hierarchy within the most primitive hematopoietic stem cell compartment. <a href="#">J Exp Med. 207 (6): 1173-82.</a></li> </ol>
<b>Storage</b>	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.</p>
<b>Guarantee</b>	12 months from date of despatch

**Health And Safety Information**      Material Safety Datasheet documentation #10041 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA5934F>  
10041

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**Regulatory**                      For research purposes only

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## Related Products

### Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:FITC \(MCA1212F\)](#)

### Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

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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)

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