

Datasheet: MCA5935F

BATCH NUMBER 161220

Description:	RAT ANTI MOUSE JAM-C:FITC
Specificity:	JAM-C
Other names:	JAM-3
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	CRAM-18 F26
Isotype:	IgG2a
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat - 1/5
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 G from tissue culture supernatant

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	Recombinant soluble JAM-C.
External Database Links	<p>UniProt:</p> <p>Q9D8B7 Related reagents</p> <p>Q9BX67 Related reagents</p> <p>Entrez Gene:</p> <p>83964 Jam3 Related reagents</p> <p>83700 JAM3 Related reagents</p>
Fusion Partners	Spleen cells from immunized Fischer rats were fused with cells of the Sp2/0 myeloma cell line.
Specificity	<p>Rat anti Mouse JAM-c antibody, clone CRAM-18 F26 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> <p>Rat anti Mouse JAM-c antibody, clone CRAM-18 F26 has been reported to inhibit transendothelial migration (Johnson-Léger <i>et al.</i> 2002).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 1. Aurrand-lions, M. <i>et al.</i> (2001) JAM-2, a novel immunoglobulin superfamily molecule, expressed by endothelial and lymphatic cells. J Biol Chem. 276 (4): 2733-41. 2. Aurrand-lions, M. <i>et al.</i> (2001) Heterogeneity of endothelial junctions is reflected by differential expression and specific subcellular localization of the three JAM family members. Blood. 98 (13): 3699-707. 3. Johnson-léger, C.A. <i>et al.</i> (2002) Junctional adhesion molecule-2 (JAM-2) promotes lymphocyte transendothelial migration. Blood. 100 (7): 2479-86. 4. Forsberg, E.C. <i>et al.</i> (2005) Differential expression of novel potential regulators in hematopoietic stem cells. PLoS Genet. 1(3):e28. 5. Radulovic, V. <i>et al.</i> (2019) Junctional Adhesion Molecule 2 Represents a Subset of Hematopoietic Stem Cells with Enhanced Potential for T Lymphopoiesis. Cell Rep. 27 (10): 2826-2836.e5.

6. Miranda, J. *et al.* (2019) Syncytiotrophoblast of Placentae from Women with Zika Virus Infection Has Altered Tight Junction Protein Expression and Increased Paracellular Permeability. [Cells. 8 \(10\)Sep 29 \[Epub ahead of print\]](#).

Storage 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.

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.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA5935F>
10041

Regulatory For research purposes only

Related Products

Recommended Negative Controls

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

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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://www.bio-rad-antibodies.com/datasheets)

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