

Datasheet: MCA5935F

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.		
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	0.09% Sodium Azide (NaN ₃)		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml		
Immunogen	Recombinant soluble JAM-C.		

**External Database
Links**

UniProt:

[Q9D8B7](#) [Related reagents](#)
[Q9BX67](#) [Related reagents](#)

Entrez Gene:

[83964](#) Jam3 [Related reagents](#)
[83700](#) JAM3 [Related reagents](#)

Fusion Partners Spleen cells from immunised Fischer rats were fused with cells of the Sp2/0 myeloma cell line.

Specificity **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.

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.

Clone CRAM-18 F26 has been reported to inhibit transendothelial migration ([Johnson-Léger *et al.* 2002](#)).

Flow Cytometry Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.

References

1. Aurrand-lions, M. *et al.* (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.](#)
2. Johnson-léger, C.A. *et al.* (2002) Junctional adhesion molecule-2 (JAM-2) promotes lymphocyte transendothelial migration. [Blood. 100 \(7\): 2479-86.](#)
3. Aurrand-lions, M. *et al.* (2001) JAM-2, a novel immunoglobulin superfamily molecule, expressed by endothelial and lymphatic cells. [J Biol Chem. 276 \(4\): 2733-41.](#)
4. Forsberg, E.C. *et al.* (2005) Differential expression of novel potential regulators in hematopoietic stem cells. [PLoS Genet. 1\(3\):e28.](#)
5. 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

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>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

RAT IgG2a NEGATIVE CONTROL:FITC (MCA1212F)

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America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

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