

Datasheet: MCA5935T

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| Description: | RAT ANTI MOUSE JAM-C |
| Specificity: | JAM-C |
| Other names: | JAM-3 |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | CRAM-18 F26 |
| Isotype: | IgG2a |
| 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 | ▪ | | | 1/10 - 1/25 |
| Immunohistology - Frozen | ▪ | | | |
| Immunohistology - Paraffin | | | ▪ | |
| ELISA | | | ▪ | |
| Immunoprecipitation | | | ▪ | |
| Western Blotting | | | ▪ | |
| 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.

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|---------------------------------|---|
| Target Species | Mouse |
| Species Cross Reactivity | <p>Reacts with: Human</p> <p>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.</p> |
| Product Form | Purified IgG - liquid |
| 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 (NaN₃)

Carrier Free Yes

Approx. Protein Concentrations IgG concentration 1.0 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 1x10⁶ 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 \[Epub ahead of print\]](#).
6. Radulovic, V. *et al.* (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.](#)

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.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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|--|---|
| Goat Anti Rat IgG (STAR69...) | FITC |
| Goat Anti Rat IgG (STAR73...) | RPE |
| Rabbit Anti Rat IgG (STAR16...) | DyLight®800 |
| Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) | DyLight®650 , DyLight®800 |
| Goat Anti Rat IgG (STAR72...) | HRP |
| Rabbit Anti Rat IgG (STAR21...) | HRP |
| Rabbit Anti Rat IgG (STAR17...) | FITC |
| Goat Anti Rat IgG (STAR131...) | Alk. Phos. , Biotin |

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL \(MCA1212\)](#)

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|----------------------------------|---|------------------|---|---------------|---|
| North & South America | Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com | Worldwide | Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com | Europe | Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com |
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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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