



Qty: 100 µg/400 µL

Rabbit anti-JAM-C (Mid)

Catalog No. 40-9000

Lot No.

Rabbit anti-JAM-C (Mid)

FORM

This polyclonal antibody is supplied as a 400 µL aliquot at a concentration of 0.25 mg/mL in phosphate buffered saline (pH 7.4) containing 0.1% sodium azide. This antibody is epitope-affinity purified from rabbit antiserum.

PAD: ZMD.511

IMMUNOGEN

Synthetic peptide derived from an internal region of the mouse and rat JAM-C proteins, which differs from human, bovine, and dog by one conservative amino acid replacement

SPECIFICITY

This antibody is specific for an internal region of the JAM-C (junctional adhesion molecule-C, JAM-3) protein. On Western blots, it identifies the target band at ~45 kDa.

REACTIVITY

Reactivity has been confirmed with mouse EL-4 cell lysates, heart and kidney homogenates and human NGP96 cell lysates. Based on amino acid sequence homology, reactivity with rat, bovine, and dog is also expected.

Sample	Western Blotting
Mouse	+++
Human	+++
Rat	ND
Bovine	ND
Dog	ND

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable N/A, Not Determined ND)

USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

Western Blotting: 1-3 µg/mL

STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long-term storage. Avoid repeated freezing and thawing.

(cont'd)

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PI409000

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BACKGROUND

Junctional adhesion molecule-C (JAM-C, JAM-3) belongs to the JAM immunoglobulin superfamily, members of which contain two extracellular Ig domains, a transmembrane domain, and a cytoplasmic region involved in cytoskeletal or signal transduction interactions.¹ JAM-C is expressed in endothelial cells, platelets, T cells, and natural killer cells.²⁻⁵ Ectopic expression in polarized epithelial cells results in the co-distribution of JAM-C with the tight junction protein ZO-1, suggesting that JAM-C also associates with tight junctions.¹ Platelet JAM-C is a counter-receptor for neutrophil Mac-1, mediating neutrophil-platelet interaction under low shear.⁵ JAM-C participates in neutrophil transmigration, and may be a novel molecular target for antagonizing interactions between vascular cells that promote inflammatory vascular pathologies.⁶

REFERENCES

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3. Aurrand-Lions M, et al. *J Biol Chem* 276:2733-2741, 2001.
4. Liang TW, et al. *J Immunol* 168:1618-1626, 2001.
5. Santoso S, et al. *J Exp Med* 196:679-691, 2002.
6. Chavakis T, et al. *J Biol Chem* 279:55602-55608, 2004.

RELATED PRODUCTS

Product	Conjugate	Cat. No.
Protein A	Sepharose [®] 4B	10-1041
rec-Protein G	Sepharose [®] 4B	10-1241

Conjugate	ZyMAX[™] Goat x Rabbit IgG (H+L)	ZyMAX[™] Goat x Mouse IgG (H+L)
Purified	81-6100	81-6500
FITC	81-6111	81-6511
TRITC	81-6114	81-6514
Cy [™] 3	81-6115	81-6515
Cy [™] 5	81-6116	81-6516
HRP	81-6120	81-6520
AP	81-6122	81-6522
Biotin	81-6140	81-6540

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