# JAM-A (C-15): sc-17427



The Power to Question

# **BACKGROUND**

Junctional adhesion molecule (JAM) is a member of the immunoglobulin superfamily expressed in tight junctions of epithelial cells and endothelial cells. It is implicated in transendothelial migration of leukocytes. JAM is constitutively expressed on circulating monocytes, neutrophils, lymphocytes subsets and platelets. The JAM family consists of JAM-A, JAM-B and JAM-C, alternatively designated JAM-1, JAM-2 and JAM-3, respectively. JAM-A localizes with F-Actin at the cell-cell contacts and at the membrane ruffles. It is involved in cell to cell adhesion through homophilic interactions and plays a role in the organization of tight junctions and modulation of leukocyte extravasation. JAM-B interacts with discrete subsets of PBLs, suggesting that it may play a role in lymphocyte trafficking. JAM-B and JAM-C proteins are binding partners; JAM-C may be a functional JAM-B receptor. Specifically, JAM-B adheres to T cells through heterotypic interactions with JAM-C. The JAM-B/JAM-C interaction my play a role in T, NK and dendritic cellular inflammation.

# **REFERENCES**

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# CHROMOSOMAL LOCATION

Genetic locus: F11R (human) mapping to 1q23.3; F11r (mouse) mapping to 1  $\,$  H3.

# **SOURCE**

JAM-A (C-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of JAM-A of human origin.

#### **RESEARCH USE**

For research use only, not for use in diagnostic procedures.

#### **PRODUCT**

Each vial contains 200  $\mu g$  IgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-17427 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

# **APPLICATIONS**

JAM-A (C-15) is recommended for detection of JAM-A of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

JAM-A (C-15) is also recommended for detection of JAM-A in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for JAM-A siRNA (h): sc-43139, JAM-A siRNA (m): sc-43140, JAM-A shRNA Plasmid (h): sc-43139-SH, JAM-A shRNA Plasmid (m): sc-43140-SH, JAM-A shRNA (h) Lentiviral Particles: sc-43139-V and JAM-A shRNA (m) Lentiviral Particles: sc-43140-V.

Molecular Weight of JAM-A: 36 kDa.

Positive Controls: Human platelet whole cell lysate: sc-363773.

# **RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

# **STORAGE**

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

#### **PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try JAM-A (J10.4): sc-53623 or JAM-A (1H2A9): sc-53624, our highly recommended monoclonal alternatives to JAM-A (C-15). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see JAM-A (J10.4): sc-53623.

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