

JAM-C (H36): sc-52692

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 may play a role in T, NK and dendritic cellular inflammation.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: JAM3 (human) mapping to 11q25; Jam3 (mouse) mapping to 9 A4.

SOURCE

JAM-C (H36) is a rat monoclonal antibody raised against full length JAM-C of mouse origin.

PRODUCT

Each vial contains 100 μ g IgG_{2a} in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

JAM-C (H36) is available conjugated fluorescein (sc-52692 FITC, 100 tests in 2 ml), for IF, IHC(P) and FCM.

APPLICATIONS

JAM-C (H36) is recommended for detection of JAM-C of mouse, rat and human origin by immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), flow cytometry (1 μ g per 1×10^6 cells) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for JAM-C siRNA (h): sc-43872, JAM-C siRNA (m): sc-77408, JAM-C shRNA Plasmid (h): sc-43872-SH, JAM-C shRNA Plasmid (m): sc-77408-SH, JAM-C shRNA (h) Lentiviral Particles: sc-43872-V and JAM-C shRNA (m) Lentiviral Particles: sc-77408-V.

Molecular Weight (predicted) of JAM-C: 35 kDa.

Molecular Weight (observed) of JAM-C: 38 kDa.

Molecular Weight of glycosylated JAM-C: 43-48 kDa.

STORAGE

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

RESEARCH USE

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

PROTOCOLS

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