

JAM-B (H-55): sc-50428

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: JAM2 (human) mapping to 21q21.3; Jam2 (mouse) mapping to 16 C3.3.

SOURCE

JAM-B (H-55) is a rabbit polyclonal antibody raised against amino acids 112-166 mapping within an extracellular domain of JAM-B of human origin.

PRODUCT

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

APPLICATIONS

JAM-B (H-55) is recommended for detection of JAM-B of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

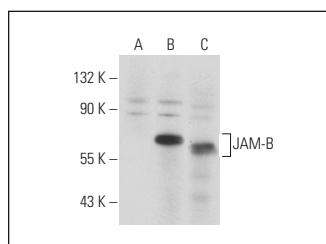
JAM-B (H-55) is also recommended for detection of JAM-B in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for JAM-B siRNA (h): sc-43141, JAM-B siRNA (m): sc-43142, JAM-B shRNA Plasmid (h): sc-43141-SH, JAM-B shRNA Plasmid (m): sc-43142-SH, JAM-B shRNA (h) Lentiviral Particles: sc-43141-V and JAM-B shRNA (m) Lentiviral Particles: sc-43142-V.

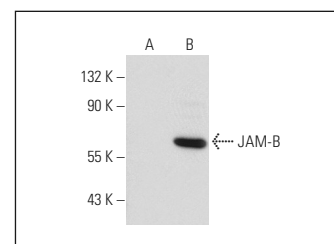
Molecular Weight of JAM-B: 54 kDa.

Positive Controls: JAM-B (h3): 293T Lysate: sc-128899 or WRL19L cell lysate: sc-3805.

DATA



JAM-B (H-55): sc-50428. Western blot analysis of JAM-B expression in non-transfected 293T: sc-117752 (A), human JAM-B transfected 293T: sc-128898 (B) and WRL19L (C) whole cell lysates.



JAM-B (H-55): sc-50428. Western blot analysis of JAM-B expression in non-transfected: sc-117752 (A) and human JAM-B transfected: sc-128899 (B) 293T whole cell lysates.

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.



Try **JAM-B (1G4): sc-293496**, our highly recommended monoclonal alternative to JAM-B (H-55).