SANTA CRUZ BIOTECHNOLOGY, INC.

JAM4 (h2): 293T Lysate: sc-372119

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The Power to Question

BACKGROUND

The junctional adhesion molecule (JAM) family are members of the immunoglobulin superfamily, which are specifically expressed in tight junctions of epithelial and endothelial cells. The JAM family consists of JAM1, JAM2, JAM3 and JAM4. JAM1 localizes with F-actin at the cell-cell contacts and at the membrane ruffles, but not at the stress fibers, and is involved in cell to cell, adhesion through homophilic interactions. JAM1 plays a role in the organization of tight junctions and modulates leukocyte extravasation through endothelial intercellular junctions *in vitro* and *in vivo*. JAM4 mediates calcium-independent homophilic cell adhesion. It interacts with MAGI-1 (membrane associated guanylate kinase inverted-1), a scaffolding protein, to regulate the permeability of kidney glomerulus and small intestine epithelial cells.

REFERENCES

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8. Nagamatsu, G., et al. 2006. A CTX family cell adhesion molecule, JAM4, is expressed in stem cell and progenitor cell populations of both male germ cell and hematopoietic cell lineages. Mol. Cell. Biol. 26: 8498-8506.
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CHROMOSOMAL LOCATION

Genetic locus: IGSF5 (human) mapping to 21q22.2.

PRODUCT

JAM4 (h2): 293T Lysate represents a lysate of human JAM4 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

RESEARCH USE

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

APPLICATIONS

JAM4 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive JAM4 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

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