SANTA CRUZ BIOTECHNOLOGY, INC.

SLAMF9 (N-18): sc-49748

BACKGROUND

Signaling lymphocyte-activation molecule (SLAM), also designated CDw150, is a novel receptor on T cells that, when engaged, potentiates T cell expansion in a CD28-independent manner. SLAM is expressed on B and T lymphocytes, dendritic cells and endothelial cells, and is thought to be a marker of activated B and T lymphocytes. SLAM family member 9 (SLAMF9), also designated CD2F-10 or CD84 homolog 1, is a 289 amino acid protein that shares 58% identity with the mouse protein. The SLAMF9 protein is predominantly expressed in hematopoietic tissues and contains a 19 residue signal peptide, an extracellular region with only two N-linked glycosylation sites, a 20 residue transmembrane region and a highly positively charged 30 residue cytoplasmic tail, suggesting a role for SLAMF9 as an adhesion molecule. SLAMF9 may function in the immune response as a coreceptor for lymphocyte activation.

REFERENCES

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3. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 608589. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
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5. Veillette, A. 2004. SLAM family receptors regulate immunity with and without SAP-related adaptors. J. Exp. Med. 199: 1175-1178.
6. Kiel, M.J., Yilmaz, O.H., Iwashita, T., Yilmaz, O.H., Terhorst, C. and Morrison, S.J. 2005. SLAM family receptors reveal endothelial niches for stem cells. Cell 121: 1109-1121.

CHROMOSOMAL LOCATION

Genetic locus: SLAMF9 (human) mapping to 1q23.2; Slamf9 (mouse) mapping to 1 H3.

SOURCE

SLAMF9 (N-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of SLAMF9 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-49748 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

SLAMF9 (N-18) is recommended for detection of SLAMF9 (SLAM family member 9) of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1–2 µg per 100–500 µg of total protein (1 ml of cell lysate)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for SLAMF9 siRNA (h): sc-61559.

Molecular Weight of SLAMF9: 31.7 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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.