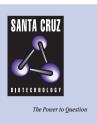
## SANTA CRUZ BIOTECHNOLOGY, INC.

# SLAMF9 (L-15): sc-49747



#### 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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- 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 (L-15) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of SLAMF9 of mouse origin.

#### 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-49747 P, (100  $\mu$ g 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 (L-15) is recommended for detection of SLAMF9 (SLAM family member 9) of mouse and rat 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).

Suitable for use as control antibody for SLAMF9 siRNA (m): sc-61560.

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<sup>™</sup> compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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<sup>™</sup> 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.