SANTA CRUZ BIOTECHNOLOGY, INC.

BLAME (T-16): sc-50707

BACKGROUND

CD2 family proteins are encoded by genes near the centromere of the long and short arms of chromosome 1. The growing CD2 family consists of Ig domain-containing cell surface proteins involved in lymphocyte activation and/or adhesion via extracellular and cytoplasmic domains. B lymphocyte activator macrophage expressed (BLAME), also designated Slam family member 8 (SLAMF8), is a 285 amino acid CD2 family protein that contains a leader sequence, a 31 residue cytoplasmic tail and a 212 amino acid extracellular domain that has an N-terminal IgV-like fold without disulfide bonds and a membrane proximal C2-like fold. BLAME may be involved in B-lineage commitment and/or regulation of signaling through the B cell receptor. It localizes to the membrane and is expressed in lymph node, thymus, bone marrow and spleen. The human BLAME protein is 75% identical to the mouse BLAME protein.

REFERENCES

1. Kingsbury, G.A., et al. 2001. Cloning, expression, and function of BLAME, a novel member of the CD2 family. J. Immunol. 166: 5675-5680.
2. Bouchon, A., et al. 2001. Activation of NK cell-mediated cytotoxicity by a SAP-independent receptor of the CD2 family. J. Immunol. 167: 5517-5521.
3. Fraser, C.C., et al. 2002. Identification and characterization of SF2000 and SF2001, two new members of the immune receptor SLAM/CD2 family. Immunogenetics 53: 843-850.
4. Kumaresan, P.R., et al. 2002. CS1, a novel member of the CD2 family, is homophilic and regulates NK cell function. Mol. Immunol. 39: 1-8.
5. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 606620. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
6. Zhang, Z. and Henzel, W.J. 2004. Signal peptide prediction based on analysis of experimentally verified cleavage sites. Protein Sci. 13: 2819-2824.

CHROMOSOMAL LOCATION

Genetic locus: SLAMF8 (human) mapping to 1q23.2; Slamf8 (mouse) mapping to 1 H3.

SOURCE

BLAME (T-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of BLAME 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-50707 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

BLAME (T-16) is recommended for detection of isoforms 1 and 2 of BLAME of mouse, rat and 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)], 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).

BLAME (T-16) is also recommended for detection of isoforms 1 and 2 of BLAME in additional species, including porcine.

Suitable for use as control antibody for BLAME siRNA (h): sc-60273, BLAME siRNA (m): sc-60274, BLAME shRNA Plasmid (h): sc-60273-SH, BLAME shRNA Plasmid (m): sc-60274-SH, BLAME shRNA (h) Lentiviral Particles: sc-60273-V and BLAME shRNA (m) Lentiviral Particles: sc-60274-V.

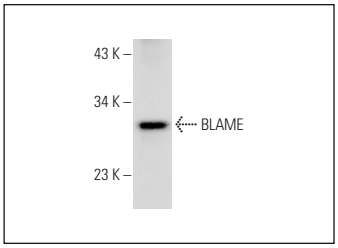
Molecular Weight of BLAME: 32 kDa.

Positive Controls: human bone marrow extract: sc-363752.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



BLAME (T-16): sc-50707. Western blot analysis of BLAME expression in human bone marrow tissue extract.

RESEARCH USE

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

PROTOCOLS

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