SANTA CRUZ BIOTECHNOLOGY, INC.

BLC (M-17): sc-8181

BACKGROUND

Burkitt's lymphoma receptor 1 (Blr1) is a lymphocyte specific chemokine receptor expressed at low levels in secondary lymphoid tissues and in defined structures of the cerebellum. The G-protein coupled receptor has significant homology to other chemokine receptors. Stimulation of Blr1 by its ligand, B-lymphocyte chemo-attractant (BLC) results in an influx of calcium into the cell and the chemotaxis of the cell. Blr1 is required for B-cell migration into splenic and Peyer's patch follicles. BLC expression in Peyer's patches is highest in germinal centers, where B cells undergo somatic mutation and affinity maturation.

REFERENCES

1. MacLennan, I.C. 1994. Germinal centers. Ann. Rev. Immunol. 12: 117-139.
2. Imal, Y. and Yamakawa, M. 1996. Morphology, function and pathology of follicular dendritic cells. Pathol. Int. 46: 807-833.
3. Forster, R., Mattis, A.E., Kremmer, E., Wolf, E., Brem, G., and Lipp, M. 1996. A putative chemokine receptor, BLR1, directs B cell migration to define lymphoid organs and specific anatomic compartments of the spleen. Cell 87: 1037-1047.
4. Flynn, S., Toellner, K.M., Raykundalia, C., Goodall, M., and Lane, P. 1998. CD4 T cell cytokine differentiation: the B cell activation molecule, OX40 ligand, instructs CD4 T cells to express interleukin 4 and upregulates expression of the chemokine receptor, Blr-1. J. Exp. Med. 188: 297-304.

SOURCE

BLC (M-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of BLC of mouse 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-8181 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

BLC (M-17) is recommended for detection of BLC of mouse and rat 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).

Suitable for use as control antibody for BLC siRNA (m): sc-39345.

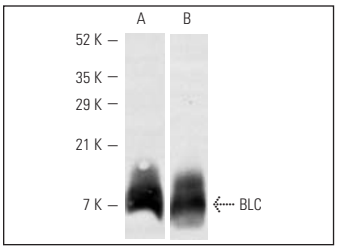
Molecular Weight of BLC: 14 kDa.

Positive Controls: I-11.15 cells.

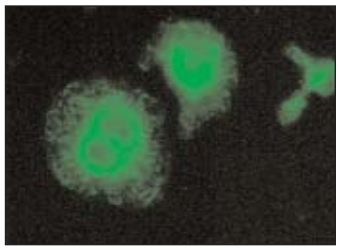
RECOMMENDED SECONDARY REAGENTS

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) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



Western blot analysis of mouse recombinant BLC (**A**,**B**). Antibodies tested include: BLC (V-20): sc-8182 (**A**) and BLC (M-17): sc-8181 (**B**).



BLC (M-17): sc-8181. Immunofluorescence staining of methanol-fixed I-11.15 cells showing cytoplasmic localization.

SELECT PRODUCT CITATIONS

1. Ebisuno, Y., et al. 2003. Cutting edge: the B cell chemokine CXC chemokine ligand 13/B lymphocyte chemoattractant is expressed in the high endothelial venules of lymph nodes and Peyer's patches. J. Immunol. 171: 1642-1646.

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.