SANTA CRUZ BIOTECHNOLOGY, INC.

BLC (V-20): sc-8182



The Power to Question

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.
- Imal, Y. and Yamakawa, M. 1996. Morphology, function and pathology of follicular dendritic cells. Pathol. Int. 46: 807-833.
- 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.
- 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.
- Gunn, M.D., Ngo, V.N., Ansel, K.M., Ekland, E.H., Cyster, J.G., and Williams, L.T. 1998. A B-cell-homing chemokine made in lymphoid follicles activates Burkitt's lymphoma receptor-1. Nature 391: 799-803.

CHROMOSOMAL LOCATION

Genetic locus: Cxcl13 (mouse) mapping to 5 E3.

SOURCE

BLC (V-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of BLC of mouse origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-8182 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, **D0 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.

APPLICATIONS

BLC (V-20) is recommended for detection of BLC of mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1–2 μ g per 100–500 μ g 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) 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





methanol-fixed I-11.15 cells showing cytoplasmic local

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).

RESEARCH USE

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

ization