# BLC siRNA (m): sc-39345



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#### **BACKGROUND**

BLC, also known as SCYB13, BCA1 or CXCL13 (C-X-C motif chemokine 13), is a 109 amino acid protein that belongs to the intercrine  $\alpha$  (chemokine CXC) family. BLC is a secreted protein with highest levels expressed in liver, followed by spleen, lymph node, appendix and stomach. Low levels of BLC are found in salivary gland, mammary gland and fetal spleen. BLC is required for the architectural organization of B cells within lymphoid follicles, apparently by stimulating calcium influx into, and chemotaxis of, cells expressing Burkitt's lymphoma receptor 1 (BLR-1). Chemokines constitute a family of small (approximately 8 to 14 kDa) chemotactic cytokines that direct the migration of leukocytes during inflammation and may be involved in the constitutive homing of lymphocytes into follicles and T-cell zones. Chemokines act through interactions with a subset of seven transmembrane G protein-coupled receptors.

## **REFERENCES**

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#### CHROMOSOMAL LOCATION

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

#### **PROTOCOLS**

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

#### **PRODUCT**

BLC siRNA (m) is a pool of 3 target-specific 19-25 nt siRNAs designed to knock down gene expression. Each vial contains 3.3 nmol of lyophilized siRNA, sufficient for a 10  $\mu M$  solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see BLC shRNA Plasmid (m): sc-39345-SH and BLC shRNA (m) Lentiviral Particles: sc-39345-V as alternate gene silencing products.

For independent verification of BLC (m) gene silencing results, we also provide the individual siRNA duplex components. Each is available as 3.3 nmol of lyophilized siRNA. These include: sc-39345A, sc-39345B and sc-39345C.

#### STORAGE AND RESUSPENSION

Store lyophilized siRNA duplex at -20° C with desiccant. Stable for at least one year from the date of shipment. Once resuspended, store at -20° C, avoid contact with RNAses and repeated freeze thaw cycles.

Resuspend lyophilized siRNA duplex in 330  $\mu$ l of the RNAse-free water provided. Resuspension of the siRNA duplex in 330  $\mu$ l of RNAse-free water makes a 10  $\mu$ M solution in a 10  $\mu$ M Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

#### **APPLICATIONS**

 $\ensuremath{\mathsf{BLC}}$  siRNA (m) is recommended for the inhibition of BLC expression in mouse cells.

# **SUPPORT REAGENTS**

For optimal siRNA transfection efficiency, Santa Cruz Biotechnology's siRNA Transfection Reagent: sc-29528 (0.3 ml), siRNA Transfection Medium: sc-36868 (20 ml) and siRNA Dilution Buffer: sc-29527 (1.5 ml) are recommended. Control siRNAs or Fluorescein Conjugated Control siRNAs are available as 10 µM in 66 µl. Each contain a scrambled sequence that will not lead to the specific degradation of any known cellular mRNA. Fluorescein Conjugated Control siRNAs include: sc-36869, sc-44239, sc-44240 and sc-44241. Control siRNAs include: sc-37007, sc-44230, sc-44231, sc-44232, sc-44233, sc-44234, sc-44235, sc-44236, sc-44237 and sc-44238.

## **RT-PCR REAGENTS**

Semi-quantitative RT-PCR may be performed to monitor BLC gene expression knockdown using RT-PCR Primer: BLC (m)-PR: sc-39345-PR (20  $\mu$ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

## **RESEARCH USE**

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

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