

DESCRIPTION

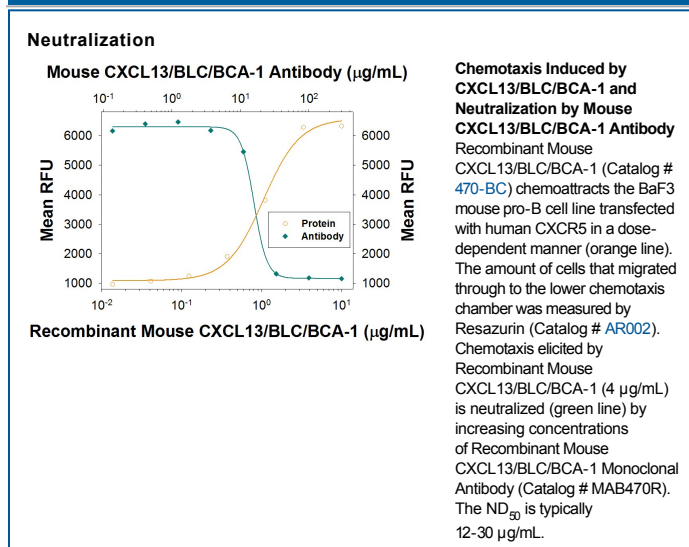
Species Reactivity	Mouse
Specificity	Detects mouse CXCL13 in ELISAs. In ELISAs, this antibody does not cross-react with recombinant human (rh) CXCL13, rmCXCL11/I-TAC, rmCXCL9/MIG, or rm CXCL12/SDF-1 α .
Source	Recombinant Monoclonal Rat IgG _{2A} Clone # 143614R
Purification	Protein A or G purified from cell culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse CXCL13 Ile22-Ala109 Accession # O55038
Endotoxin Level	<0.10 EU per 1 μ g of the antibody by the LAL method.
Formulation	Supplied as a solution in PBS. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μ m filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Mouse CXCL13/BLC/BCA-1 Sandwich Immunoassay	Reagent
ELISA Capture	2-8 μ g/mL Mouse CXCL13/BLC/BCA-1 Antibody (Catalog # MAB470R)
ELISA Detection	0.1-0.4 μ g/mL Mouse CXCL13/BLC/BCA-1 Biotinylated Antibody (Catalog # BAF470)
Standard	Recombinant Mouse CXCL13/BLC/BCA-1 (Catalog # 470-BC)
Neutralization	Measured by its ability to neutralize CXCL13/BLC/BCA-1 induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CXCR5. The Neutralization Dose (ND ₅₀) is typically 12-30 μ g/mL in the presence of 4 μ g/mL Recombinant Mouse CXCL13/BLC/BCA-1.

DATA



PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C, as supplied. • 1 month, 2 to 8 °C under sterile conditions after opening. • 6 months, -20 to -70 °C under sterile conditions after opening.

BACKGROUND

CXCL13, also known as B-lymphocyte chemoattractant (BLC) and BCA-1, is a CXC chemokine that is constitutively expressed in secondary lymphoid organs. Mouse CXCL13 cDNA encodes a precursor protein of 109 amino acid residues with a putative leader sequence of 21 residues. Mature mouse CXCL13 shares 64% amino acid sequence similarity with the human protein and 23-34% amino acid sequence identity with other known CXC chemokines. Recombinant or chemically synthesized CXCL13 is a potent chemoattractant for B lymphocytes but not T lymphocytes, monocytes or neutrophils. BLR1, a G protein-coupled receptor originally isolated from Burkitt's lymphoma cells, has now been shown to be the specific receptor for CXCL13. Among cells of the hematopoietic lineages, the expression of BLR1, now designated CXCR5, is restricted to B lymphocytes and a subpopulation of T helper memory cells. Mice lacking BLR1 have been shown to lack inguinal lymph nodes. These mice were also found to have impaired development of Peyer's patches and defective formation of primary follicles and germinal centers in the spleen as a result of the inability of B lymphocytes to migrate into B cell areas.

References:

1. Gunn, M.D. *et al.* (1998) *Nature*, **391**:799.
2. Legler, D.F. *et al.* (1998) *J. Exp. Med.* **187**:655.
3. Forster, R. *et al.* (1996) *Cell* **87**:1037.