Mouse BLC Antibody Pair Set

Catalog No. E-KAB-0324 **Applications** ELISA
Synonyms CXCL13, ANGIE, ANGIE2, BCA-1, BCA1, BLR1L, SCYB13

Kit components & Storage

Title	Specifications	Storage
Mouse BLC Capture Antibody	1 vial, 100 μg	Store at -20℃ for one year. Avoid freeze / thaw cycles.
Mouse BLC Detection Antibody (Biotin)	1 vial, 50 μL	Store at -20℃ for one year. Avoid freeze / thaw cycles.

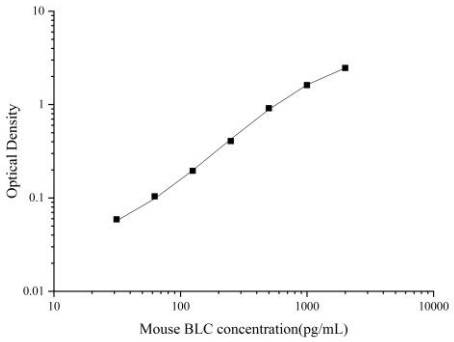
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0324)	
		Mouse BLC Capture Antibody	Mouse BLC Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Mouse BLC protein	Recombinant Mouse BLC protein
	Swissprot	O55038	
Product details	Reactivity	Mouse	Mouse
	Host	Rat	Goat
	Conjugation	Unconjugated	Biotin
	Concentration	0.5mg/mL	/
	Buffer	PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4	PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4
	Purify	Protein A or G	Antigen Affinity
	Specificity	Detects Mouse BLC in ELISAs.	

Applications

Mouse BLC Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images
ELISA Capture	0.5-4μg/mL	Mouse BLC Capture Antibody	
ELISA Detection	1:1000-1:10000	Mouse BLC Detection Antibody (Biotin)	

Note: This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

Background

CXCL13, also known as B-lymphocyte chemoattractant (BLC), is a CXC chemokine that is constitutively expressed in secondary lymphoid organs. Mouse BCA-1 cDNA encodes a precursor protein of 109 amino acid residues with a putative leader sequence of 21 residues. Mature mouse BCA-1 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 BCA-1 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 BCA-1. 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.