Bl-CAM ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	BL-CAM, ELISA Kit
Full Product Name	BL-CAM Colorimetric Cell-Based ELISA Kit
Product Gene Name	BL-CAM elisa kit
Product Synonym Gene Name	CD22
Product Synonym Names	B-cell receptor CD22; B-lymphocyte cell adhesion molecule; BL-CAM; Leu-14; Siglec-2
Species Reactivity	Human
Assay Type	Non-Phospho Cell-Based ELISA
Samples	Researchers plate their cell line of choice
Sensitivity	>=5000 cells/well
Form/Format	One 96-Well Plate
Preparation and Storage	Store at 4 degree C.
Molecular Weight	95348
OMIM	U62631 Genomic DNA
3D Structure	ModBase 3D Structure for P20273
Detection Method	Colorimetric 450 nm
Product Categories/Family for BL-CAM elisa kit	Cell Based ELISA Kit
Related Product Information for BL-CAM elisa kit	MBS9500065 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the BL-CAM, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing BL-CAM. The ELISA analytical biochemical technique of the MBS9500065 kit is based on BL-CAM antibody-BL-CAM antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect BL-CAM antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, BL-CAM. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of BL-CAM elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BL-CAM. It may not necessarily be applicable to this product.

NCBI GI #	297374825
NCBI GeneID	933
NCBI Accession #	NP_001172028.1
UniProt Primary Accession #	P20273
UniProt Secondary Accession #	O95699; O95701; O95702; O95703; Q01665; Q32M46; Q92872; Q92873; Q9UQA6; F5GYU4; F5H7U3

UniProt Related Accession #	P20273
GenBank Nucleotide #	NM_001185099.1
NCBI Official Full Name	B-cell receptor CD22 isoform 2
NCBI Official Synonym Full Names	CD22 molecule
NCBI Official Symbol	CD22
NCBI Official Synonym Symbols	SIGLEC2; SIGLEC-2
UniProt Protein Name	B-cell receptor CD22
UniProt Synonym Protein Names	B-lymphocyte cell adhesion molecule; BL-CAM; Sialic acid-binding Ig-like lectin 2; Siglec-2; T-cell surface antigen Leu-14; CD_antigen: CD22
Protein Family	BAG family molecular chaperone regulator
UniProt Gene Name	CD22
UniProt Synonym Gene Names	SIGLEC2; BL-CAM; Siglec-2
NCBI Protein Information	B-cell receptor CD22
UniProt Comments for BL-CAM	CD22: Mediates B-cell B-cell interactions. May be involved in the localization of B-cells in lymphoid tissues. Binds sialylated glycoproteins; one of which is CD45. Preferentially binds to alpha-2,6-linked sialic acid. The sialic acid recognition site can be masked by cis interactions with sialic acids on the same cell surface. Upon ligand induced tyrosine phosphorylation in the immune response seems to be involved in regulation of B-cell antigen receptor signaling. Plays a role in positive regulation through interaction with Src family tyrosine kinases and may also act as an inhibitory receptor by recruiting cytoplasmic phosphatases via their SH2 domains that block signal transduction through dephosphorylation of signaling molecules. Belongs to the immunoglobulin superfamily. SIGLEC (sialic acid binding Ig-like lectin) family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cell surface; Membrane protein, integral Chromosomal Location of Human Ortholog: 19q13.12 Cellular Component: extracellular exosome; integral component of membrane; plasma membrane Molecular Function: carbohydrate binding; protein binding Biological Process: cell adhesion
Research Articles on BL-CAM	**1.** Here the authors structurally characterize the ectodomain of CD22 and present its crystal structure with the bound therapeutic antibody epratuzumab, which gives insights into the mechanism of inhibition of B-cell activation.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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