Basal Cell Adhesion Molecule (BCAM) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	Basal Cell Adhesion Molecule (Bcam), ELISA Kit
Full Product Name	Mouse Basal Cell Adhesion Molecule ELISA Kit
Product Gene Name	Bcam elisa kit
Species Reactivity	Mouse
Assay Type	sandwich
Samples	cell culture supernates, cell lysates, serum and plasma (heparin, EDTA)
Detection Range	156pg/ml-10000pg/ml
Sensitivity	<15pg/ml
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles. (Shipped with wet ice)
Molecular Weight	67,670 Da
3D Structure	ModBase 3D Structure for Q9R069
Detection Target	Basal Cell Adhesion Molecule
Immunogen Sequence	369
Cross-Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Related Product Information for Bcam elisa kit	This Mouse Basal Cell Adhesion Molecule ELISA Kit is intended for quantitative detection of mouse BCAM in cell culture supernates, cell lysates, serum and plasma (heparin, EDTA). Strip well format. Reagents for up to 96 tests. This mouse BCAM ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for BCAM has been precoated onto 96-well plates. Standards (Expression system for standard: NSO, Immunogen sequence: E26-A541) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for BCAM is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the mouse BCAM amount of sample captured in plate. The capture antibody is a monoclonal antibody from rat, the detection antibody is a biotinylated polyclonal antibody from goat. Expression system for standard: Basal cell adhesion molecule is a protein that in humans is encoded by the BCAM gene. The BCAM gene encodes a glycoprotein expressed on cell surfaces. It is a member of the immunoglobulin superfamily of receptors and cell adhesion molecules. When expressed on erythrocytes, BCAM constitutes the Lutheran (Lu) and Auberger (Au) blood group antigens. And this protein may play a role in epithelial cell cancer and in vaso-occlusion of red blood cells in sickle cell disease. Two transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of Bcam 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.

Searchable Terms for Bcam purchase	MBS8420382 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Basal Cell Adhesion Molecule (Bcam) 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 Bcam. The ELISA analytical biochemical technique of the MBS8420382 kit is based on Bcam antibody-Bcam antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect Bcam antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, Bcam. 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(%).

ADDITIONAL DETAILS

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

NCBI GI #	10048460
NCBI GeneID	57278
NCBI Accession #	NP_065232.1
UniProt Primary Accession #	Q9R069
UniProt Secondary Accession #	Q9ESS5; Q9JKB2
UniProt Related Accession #	Q9R069
GenBank Nucleotide #	NM_020486.2
NCBI Official Full Name	basal cell adhesion molecule
NCBI Official Synonym Full Names	basal cell adhesion molecule
NCBI Official Symbol	Bcam
NCBI Official Synonym Symbols	Lu; Gplu; B-CAM; 1200005K12Rik
UniProt Protein Name	Basal cell adhesion molecule
UniProt Synonym Protein Names	B-CAM cell surface glycoprotein; Lutheran antigen; CD_antigen: CD239
Protein Family	Basal cell adhesion molecule
UniProt Gene Name	Bcam
UniProt Synonym Gene Names	Gplu; Lu
UniProt Entry Name	BCAM_MOUSE
NCBI Protein Information	basal cell adhesion molecule
UniProt Comments for Bcam	Lu: Laminin alpha-5 receptor. May mediate intracellular signaling. Protein type: Receptor, misc.; Membrane protein, integral Cellular Component: cell surface; integral to plasma membrane; plasma membrane Molecular Function: laminin binding; laminin receptor activity; protein C-terminus binding Biological Process: cell adhesion; cell-matrix adhesion
Research Articles on Bcam	**1.** Lu/BCAM may have a critical role in facilitating the accumulation of monocytes and macrophages, thereby exacerbating renal injury in crescentic glomerulonephritis.
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