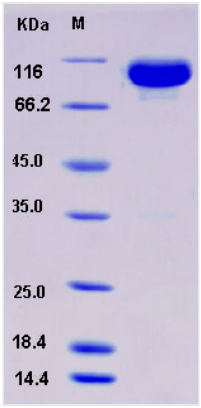
BCAM Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	BCAM, Recombinant Protein
Full Product Name	Recombinant Mouse BCAM Protein (Fc tag)
Product Gene Name	BCAM recombinant protein
Product Synonym Names	1200005K12Rik, B-CAM, Gplu, Lu
Host	Human Cells
Form/Format	Lyophilized from sterile PBS, pH 7.4
Purity/Purification	> 92 % as determined by SDS-PAGE
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -70 degree C
Molecular Weight	67,670 Da
3D Structure	ModBase 3D Structure for Q9R069
Predicted N Terminal	Glu 26
Endotoxin	< 1.0 EU per mug of the protein as determined by the LAL method
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Application Notes for BCAM recombinant protein	The secreted recombinant mouse BCAMFc is a disulfide-linked homodimer. The reduced monomer comprises 757 amino acids and has a calculated molecular mass of 84 kDa. As a result of glycosylation, the apparent molecular mass of rmBCAM/Fc monomer is approximately 95-105 kDa in SDS-PAGE under reducing conditions.
Related Product Information for BCAM recombinant protein	Background: The Lutheran (Lu) blood group and basal cell adhesion molecule (BCAM) antigens are both carried by 2 glycoprotein isoforms of the immunoglobulin superfamily representing receptors for the laminin alpha (5) chain. It is a transmembrane receptor with five immunoglobulin-like domains in its extracellular region, and is therefore classified as a member of the immunoglobulin (Ig) gene family. In addition to red blood cells, Lu/BCAM proteins are expressed in endothelial cells of vascular capillaries and in epithelial cells of several tissues. BCAM/LU has a wide tissue distribution with a predominant expression in the basal layer of the epithelium and the endothelium of blood vessel walls. As designated as CD239 recently, BCAM and LU share a significant sequence similarity with the CD146 (MUC18) and CD166, and themselves are adhesion molecules that bind laminin with high affinity. Laminins are found in all basement membranes and are involved in cell differentiation, adhesion, migration, and proliferation. BCAM is upregulated following malignant transformation of some cell type s in vivo and in vitro, thus being a candidate molecule involved in tumor progression. In addition, BCAM interacts with integrin in sickle red cells, and thus may potentially play a role in vaso-occlusive episodes. Description: A DNA sequence encoding the extracellular domain of mouse BCAM (Q9R069) (Met 1-Ala 541) was fused with the Fc region of human IgG1 at the C-terminus.
Other Notes	Small volumes of BCAM recombinant protein 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	MBS2546719 is a recombinant protein targeting BCAM. Also known as Recombinant Mouse BCAM Protein (Fc tag). Host: Human Cells.



SDS-PAGE of BCAM recombinant protein

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
NCBI Protein Information	basal cell adhesion molecule
UniProt Comments for BCAM	Lu: Laminin alpha-5 receptor. May mediate intracellular signaling. Protein type: Membrane protein, integral; Receptor, misc. Chromosomal Location of Human Ortholog: 7|7 A3 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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