

Recombinant Human BCAM, Fc Chimera

Human, Recombinant (BCAM, Fc Chimera)

Expressed in *HEK293*

Cat. No. *BACM-595H*

Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview: Recombinant Human BCAM (Lutheran blood group) encoding the extracellular domain of human BCAM (NP_005572.2) (Met 1- Ala 547) was produced in *Human Cells (HEK293)*. It was fused with the Fc region of human IgG1 at the C-terminus.

Description: Basal cell adhesion molecule (BCAM) and Lutheran blood group glycoprotein (LU) are two alternatively spliced variants of a single pre-mRNA. They are type I membrane proteins of the immunoglobulin superfamily (IgSF) sharing similar structure characteristics except for the length of cytoplasmic tails. The mature 597 amino acid BCAM contains an extracellular domain composing of five Ig-like domains (two V-set and three C2-set), a single transmembrane domain, and a 19aa cytoplasmic domain which lacks the putative Src homology 3 (SH3) binding site compared to the 59aa cytoplasmic domain present in LU.

Molecular Mass: The recombinant human BCAM/Fc is a disulfide-linked homodimeric protein. The reduced monomer consists of 754 amino acids and predicts a molecular mass of 83 KDa. As a result of glycosylation, the rh BCAM/Fc monomer migrates as approximately 100-110 KDa band in SDS-PAGE under reducing conditions.

Source: *Human Cells (HEK293)*.

Purity: > 95%, as determined by SDS-PAGE.

Endotoxin: < 1.0 EU per 1µg cytokine as determined by the LAL method.

Stability: Samples are stable for up to twelve months from date of receipt -70°C.

Predicted N Terminal: Glu 32.

Formulation: Supplied as a 0.2µm filtered solution of PBS, pH7.4.

Reconstitution: Follow the instructions on the vial. Centrifuge the vial at 4°C before opening to recover the entire contents.

Storage: Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted and be used as soon as possible. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name: [BCAM basal cell adhesion molecule \(Lutheran blood group\) \[Homo sapiens \]](#)

Synonyms: BCAM; basal cell adhesion molecule (Lutheran blood group); AU; LU; CD239; MSK19; Lutheran blood group (Auberger b antigen included); basal cell adhesion molecule (Lu and Au blood groups); Basal cell adhesion molecule; Auberger B antigen; B-CAM cell surface glycoprotein; Lutheran blood group glycoprotein; Lutheran antigen; F8/G253 antigen; glycoprotein 95kDa; basal cell adhesion molecule; antigen identified by monoclonal antibody F8

GeneID: [4059](#)

mRNA Refseq: [NM_001013257](#)

Protein Refseq: [NP_001013275](#)

MIM: [612773](#)

UniProt ID: P50895

Chromosome Location: 19q12-q13

Function: laminin binding; laminin receptor activity

REFERENCES

1. Campbell, I.G. et al., 1994, *Cancer. Res.* 54: 5761-5765.
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3. Nemer, W.E. et al., 2001, *J. Biol. Chem.* 276: 23757-23762.
4. Nemer, W.E. et al., 2007, *Blood.* 109: 3544-3551.

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45-16 Ramsey Road Shirley, NY 11967, USA
Tel: 631-559-9269 · Fax: 631-207-8356
E-mail: info@creative-biomart.com
www.creative-biomart.com