

Product Name: Recombinant Human BCAM (C-6His)
Catalog #: PHH0134

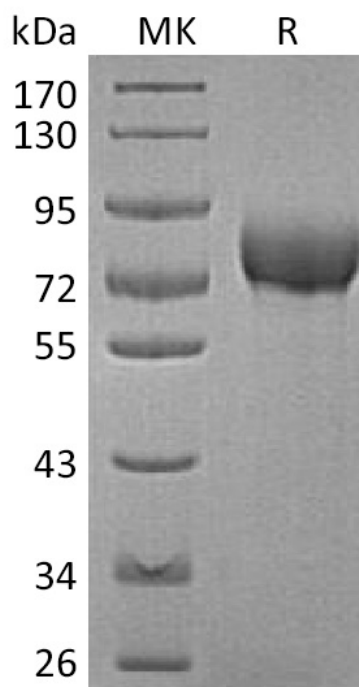


Summary

Name	BCAM/Basal Cell Adhesion Molecule
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human Basal Cell Adhesion Molecule is produced by our Mammalian expression system and the target gene encoding Glu32-Ala547 is expressed with a 6His tag at the C-terminus.
Accession #	P50895
Host	Human Cells
Species	Human
Predicted Molecular Mass	57 KDa
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Lyophilized protein should be stored at ≤ -20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at ≤ -20°C for 3 months.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SDS-PAGE image

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Alternative Names

Basal cell adhesion molecule; Auberger B antigen; B-CAM cell surface glycoprotein; F8/G253 antigen; Lutheran antigen; Lutheran blood group glycoprotein; CD239; BCAM; LU; MSK19

Background

Basal cell adhesion molecule (BCAM, CD239) is an immunoglobulin superfamily protein that arises from alternate splicing of the Lutheran blood group molecule (Lu). The ECD of human BCAM contains two Ig-like V-type domains and three Ig-like C2-type domains. It shares 73% aa sequence identity with the ECDs of mouse and rat BCAM. BCAM is widely expressed in epithelial and endothelial tissues including in the vasculature, kidney glomerulus, small intestine, colon, hair follicle outer root sheath, and basal keratinocytes of the skin during inflammation. BCAM is also expressed on vascular and visceral smooth muscle cells and at the neuromuscular junction of skeletal muscle. BCAM is upregulated on carcinomas, particularly ovarian, sarcomas, astrocytomas, and melanomas. It may mediate intracellular signaling. It cooperates with Integrins $\beta 1$ and $\alpha V\beta 3$ as an adhesion receptor for Laminins which contain the $\alpha 5$ chain. The Lutheran isoform is aberrantly phosphorylated in erythroid disorders and can enhance Laminin-mediated adhesion of erythrocytes to vascular endothelial cells.

Note

For Research Use Only , Not for Diagnostic Use.