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KD-Validated Anti-BCAM Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI2236

Specification

KD-Validated Anti-BCAM Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC**
Primary Accession	P50895
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 67 kDa; observed, 75-85 kDa KDa**
Gene Name	**BCAM**
Aliases	**BCAM; Basal Cell Adhesion Molecule (Lutheran Blood Group); F8/G253; CD239; B-CAM; LU; Basal Cell Adhesion Molecule (Lu And Au Blood Groups); B-CAM Cell Surface Glycoprotein; Basal Cell Adhesion Molecule; Auberger B Antigen; F8/G253 Antigen; MSK19; Lutheran Blood Group (Auberger B Antigen Included); Lutheran Blood Group Variant LUGA; Lutheran Blood Group Glycoprotein; B-Cell Adhesion Molecule; Lutheran Antigen; CD239 Antigen; AU**
Immunogen	**A synthesized peptide derived from human BCAM**

KD-Validated Anti-BCAM Rabbit Monoclonal Antibody - Additional Information

Gene ID	**4059**

Other 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

KD-Validated Anti-BCAM Rabbit Monoclonal Antibody - Protein Information

Name BCAM

Synonyms LU, MSK19

Function
Transmembrane glycoprotein that functions as both a receptor and an adhesion molecule playing a crucial role in cell adhesion, motility, migration and invasion (PubMed:9616226, PubMed:31413112). Extracellular domain enables binding to extracellular matrix proteins, such as laminin, integrin and other

ligands while its intracellular domain interacts with cytoskeletal proteins like hemoglobin, facilitating cell signal transduction (PubMed:17158232). Serves as a receptor for laminin alpha-5/LAMA5 to promote cell adhesion (PubMed:15975931). Mechanistically, JAK2 induces BCAM phosphorylation and activates its adhesion to laminin by stimulating a Rap1/AKT signaling pathway in the absence of EPOR (PubMed:23160466).

Cellular Location
Cell membrane; Single-pass type I membrane protein

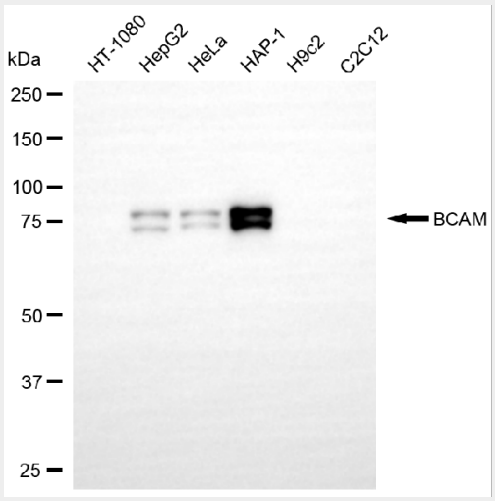
Tissue Location
Wide tissue distribution (highest in the pancreas and very low in brain). Closely associated with the basal layer of cells in epithelia and the endothelium of blood vessel walls

KD-Validated Anti-BCAM Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-BCAM Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-BCAM antibody (Cat#AGI2236). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-BCAM antibody (Cat#AGI2236, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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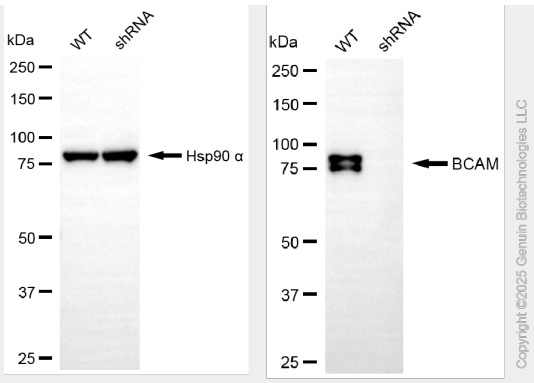
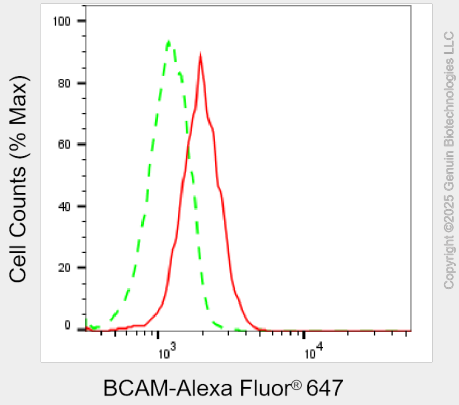


Western blotting analysis using anti-BCAM antibody (Cat#AGI2236). BCAM expression in wild-type (WT) and BCAM shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-BCAM antibody (Cat#AGI2236, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of BCAM expression in HAP-1 cells using anti-BCAM antibody (Cat#AGI2236, 1:2,000). Green, isotype control; red, BCAM.