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KD-Validated Anti-BCAM Rabbit Monoclonal Antibody

Rabbit monoclonal Antibody
Catalog # AGI2216

Product Information

Application	WB
Primary Accession	P50895
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	25GB375
Calculated MW	67405
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

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

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

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