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Anti-BCAM Reference Antibody (Genome and Co. patent anti-BCAM)

Catalog # APR11537

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	P50895
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG4SP-Opti
Calculated MW	67405

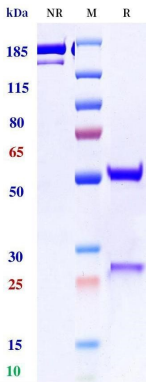
Additional Information

Target/Specificity	BCAM
Expression system	CHO

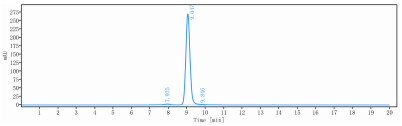
Protein Information

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

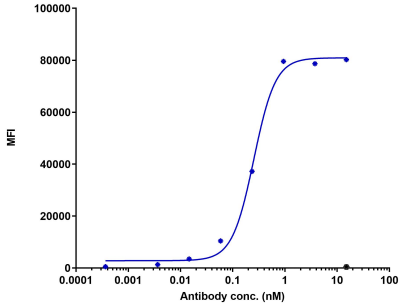
Images



Anti-BCAM Reference Antibody (Genome and Co. patent anti-BCAM) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



The purity of Anti-BCAM Reference Antibody (Genome and Co. patent anti-BCAM) is 95.6%, determined by SEC-HPLC.



PLVX-puro-BCAM-FL cell line were stained with Genome and Co. patent anti-BCAM and negative control protein respectively, washed and then followed by PE and analyzed with FACS, with the EC50 is 0.252 nM.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.