

Human BCAM/CD239 ELISA Kit | BCAM/CD239 elisa kit

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CATALOG #
AAA258348

REACTIVITY
Human

PRODUCT SYNONYMS

BCAM/CD239; Human BCAM/CD239 ELISA Kit; BCAM ELISA Kit; Human; basal cell adhesion molecule (Lutheran blood group); AU ELISA Kit; CD239 ELISA Kit; LU ELISA Kit; MSK19 ELISA Kit; BCAM/CD239 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	For the quantitative determination of Human BCAM/CD239 concentration in serum.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Serum
Detection Range	39-2500pg/mL
Sensitivity	17.7pg/mL
Conjugation	HRP
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

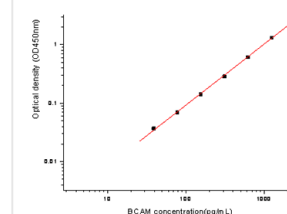
IMAGES

Recombinant human			
IL-1	IL-2	IL-33	IL-10
IL-8	TNF- α	IL-4	IL-6
IFN- γ	MIP-1 β	TIMP-1	TIMP-2
GM-CSF	SCF	PDGF	VEGF
Recombinant mouse			
BCAM			
Recombinant rat			
BCAM			

Application Data

This assay recognizes both recombinant and natural Human BCAM. The factors listed above were prepared at 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.

Concentration (pg/mL)	Zero standard subtracted OD
0	0
39.06	0.037
78.13	0.070
156.25	0.142
312.5	0.288
625	0.614
1250	1.311
2500	2.794



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for BCAM/CD239 elisa kit	This BCAM ELISA Kit, Human is an enzyme-linked immunosorbent assay for the quantitative measurement of Human BCAM protein in Serum. It contains recombinant Human BCAM, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: The Lutheran (Lu) blood group and basal cell adhesion molecule (BCAM) antigens are both carried by 2 glycoprotein isoforms of the immunoglobulin superfamily representing receptors for the laminin alpha(5) chain. It is a transmembrane receptor with five immunoglobulin-like domains in its extracellular region, and is therefore classified as a member of the immunoglobulin (Ig) gene family. In addition to red blood cells, Lu/BCAM proteins are expressed in endothelial cells of vascular capillaries and in epithelial cells of several tissues. BCAM/LU has a wide tissue distribution with a predominant expression in the basal layer of the epithelium and the endothelium of blood vessel walls. As designated as CD239 recently, BCAM and LU share a significant sequence similarity with the CD146 (MUC18) and CD166, and themselves are adhesion molecules that bind laminin with high affinity. Laminins are found in all basement membranes and are involved in cell differentiation, adhesion, migration, and proliferation. BCAM is upregulated following malignant transformation of some cell types in vivo and in vitro, thus being a candidate molecule involved in tumor progression. In addition, BCAM interacts with integrin in sickle red cells, and thus may potentially play a role in vaso-occlusive episodes.
References	Kikkawa Y, et al. (2005) Review: Lutheran/B-CAM: a laminin receptor on red blood cells and in various tissues. Connect Tissue Res. 46 (4-5): 193-9. El Nemer W, et al. (2007) Endothelial Lu/BCAM glycoproteins are novel ligands for red blood cell alpha4beta1 integrin: role in adhesion of sickle red blood cells to endothelial cells. Blood. 109 (8): 3544-51. Colin Y, et al. (2008) Red cell and endothelial Lu/BCAM beyond sickle cell disease. Transfus Clin Biol. 15 (6): 402-5. El Nemer W, et al. (2008) Role of Lu/BCAM in abnormal adhesion of sickle red blood cells to vascular endothelium. Transfus Clin Biol. 15 (1-2): 29-33.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.