

RPES8336

Product Information

Product SKU:	RPES8336	Expression Host:	Mammalian	Size:	20µg
Tag:	C-His	Reactivity:	Human	Accession:	P50895

Additional Information

Calculated MW:	56.6 kDa	Observed MW:	80 kDa
Sequence:	Glu32-Ala547		

Protein Information

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.

Synonyms: MSK, BCAM, AU, CD239, LU, MSK19, Auburger B antigen, Basal cell adhesion molecule, B-CAM cell surface glycoprotein, F8/G253 antigen, Lutheran antigen, Lutheran blood group glycoprotein, Rh30CE, Antigen identified by monoclonal F8, B

CAM cell surface glycoprotein, B cell adhesion molecule, Basal cell adhesion molecule (Lu and Au blood groups), Basal cell adhesion molecule (Lutheran blood group), Basal cell adhesion molecule Lu and Au blood groups, Basal cell adhesion molecule Lutheran blood group, CD239 antigen, Glycoprotein 95kDa, Lutheran, Lutheran blood group (Auberger b antigen included), Lutheran blood group Auberger b antigen included

Endotoxin: < 1.0 EU/mg of the protein as determined by the LAL method

Formulation: Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.

Purity: > 90% as determined by reducing SDS-PAGE.

Bio-Activity: Not validated for activity

Storage: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.