

Store at
-20C
#92189**Lu/BCAM Antibody**

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	85, 88	Rabbit	#P50895	4059

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Lu/BCAM Antibody recognizes endogenous levels of total Lu/BCAM protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala587 of human Lu/BCAM protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Lu/BCAM (CD239) is a transmembrane cell adhesion molecule belonging to the immunoglobulin superfamily (1). The protein mediates cell adhesion by binding to basal membrane laminin α5, and cell surface integrin α4β1 (2,3). The interaction between Lu/BCAM and its ligands can be activated via phosphorylation in its cytoplasmic tail by either PKA or Akt signaling (4,5). In sickle cell disease, Lu/BCAM was reported to promote abnormal red blood cell adhesion to endothelium, and thus may contribute to vaso-occlusive crisis (6). Overexpression of Lu/BCAM has also been reported in breast cancer, skin cancer, colon cancer, and ovarian cancer (7, 8). Antibody-drug conjugates targeting Lu/BCAM on tumor cells surface has been proposed as a potential approach for cancer therapy (8).

Background References

1. Parsons, S.F. et al. (1995) *Proc Natl Acad Sci U S A* 92, 5496-500.
2. El Nemer, W. et al. (1998) *J Biol Chem* 273, 16686-93.
3. El Nemer, W. et al. (2007) *Blood* 109, 3544-51.
4. Hines, P.C. et al. (2003) *Blood* 101, 3281-7.
5. De Grandis, M. et al. (2013) *Blood* 121, 658-65.
6. Chaar, V. et al. (2014) *J Biol Chem* 289, 11512-21.
7. Bartolini, A. et al. (2016) *Clin Cancer Res* 22, 4923-4933.
8. Kikkawa, Y. et al. (2018) *Sci Rep* 8, 6612.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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