

Human BCAM Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 87207

Catalog Number: FAB1481G

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human BCAM in ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human (rh) ALCAM, rhEpCAM, recombinant mouse (rm) MAdCAM-1, rhMCAM, rhNCAM-L1, rmOCAM, or rmTROP-2 is observed.
Source	Monoclonal Mouse IgG _{2A} Clone # 87207
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human BCAM Glu32-Ala547 Accession # CAA58449
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Shee (SDS) for additional information and handling instructions.

	Recommended	Sample
	Concentration	
Flow Cytometry	0.25-1 μg/10 ⁶ cells	Huh-7 human hepatoma cell line

PREPARATION AND STORAGE		
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.	
Stability & Storage	Protect from light. Do not freeze. • 12 months from date of receipt, 2 to 8 °C as supplied.	

BACKGROUND

APPLICATIONS

Basal-Cell Adhesion Molecule (BCAM) and Lutheran blood group glycoprotein (LU) are two alternatively spliced variants of a single immunoglobulin superfamily (IgSF) protein that differ in the length of their cytoplasmic tails. BCAM cDNA encodes a 628 amino acid (aa) residues precursor protein with a putative 31 aa signal peptide, a 597 aa extracellular domain containing three C2 type and two V-type Ig-like domains, a 21 aa transmembrane domain, and a 19 aa cytoplasmic domain. Compared to the 40 aa cytoplasmic domain present in LU, the BCAM cytoplasmic tail lacks the putative Src homology 3 (SH3) binding site that may be involved in mediating intracellular signaling. BCAM/LU has wide tissue distribution and is expressed on erythrocytes, the endothelium of blood vessels and on the basal layer of cells in the epithelia. The expression of BCAM/LU in normal tissues is higher in fetal versus adult tissues. BCAM/LU expression is also upregulated in sickle cell disease red blood cells, in activated keratinocytes and following malignant transformation in some cell types in vivo and in vitro. BCAM/LU has been shown to be an adhesion molecule that binds laminin, a basement membrane protein involved in cell differentiation, adhesion, migration and proliferation.

References:

- 1. Campbell, I.G. et al. (1994) Cancer Research 54:5761.
- 2. Parsons, S.F. et al. (1995) Proc. Natl., Acad. Sci. USA, 92:5496
- 3. Udani, M. et al. (1998) 101:2550.
- 4. Schon, M. et al. (2000) J. Invest. Dermatol, 115:1047.

PRODUCT SPECIFIC NOTICES

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