

ARG22529 anti-CD239 antibody [BRIC221]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [BRIC221] recognizes CD239 This antibody recognizes human CD239, also known as Lutheran antigen or basal cell adhesion molecule. CD239 is a 597 amino acid, ~85 kDa single pass type I membrane glycoprotein. Clone BRIC221 recognizes a monomorphic determinant expressed on both the 85 and 78 kDa Lutheran (Lu) glycoforms (El Nemer et al. 1998). BRIC 221 recognizes an epitope in the fourth extracellular domain of Lu glycoprotein (Parsons et al. 1997). Lutheran glycoprotein is a member of the immunoglobulin superfamily and was designated CD239 (B-CAM) at the 7th leucocyte typing workshop. CD239 is expressed by erythrocytes in the peripheral blood.
Tested Reactivity	Hu, Pig
Tested Application	ELISA, FACS, ICC/IF, IHC-Fr, WB
Host	Mouse
Clonality	Monoclonal
Clone	BRIC221
Isotype	IgG2b
Target Name	CD239
Species	Human
Immunogen	Human erythrocytes.
Conjugation	Un-conjugated
Alternate Names	MSK19; Auberger B antigen; F8/G253 antigen; Lutheran antigen; Basal cell adhesion molecule; LU; AU; CD239; B-CAM cell surface glycoprotein; Lutheran blood group glycoprotein; CD antigen CD239

Application Instructions

Application table	Application	Dilution
	ELISA	Assay-dependent
	FACS	Assay-dependent
	ICC/IF	Assay-dependent
	IHC-Fr	Assay-dependent
	WB	Assay-dependent
Application Note	WB: Non-reducing conditions required. FACS: Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
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Purification	Purification with Protein G.
Buffer	TRIS buffered glycine and 0.09% Sodium azide.
Preservative	0.09% Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	BCAM
Gene Full Name	basal cell adhesion molecule (Lutheran blood group)
Background	This gene encodes Lutheran blood group glycoprotein, a member of the immunoglobulin superfamily and a receptor for the extracellular matrix protein, laminin. The protein contains five extracellular immunoglobulin domains, a single transmembrane domain, and a short C-terminal cytoplasmic tail. This protein may play a role in epithelial cell cancer and in vaso-occlusion of red blood cells in sickle cell disease. Polymorphisms in this gene define some of the antigens in the Lutheran system and also the Auberger system. Inactivating variants of this gene result in the recessive Lutheran null phenotype, Lu(a-b-), of the Lutheran blood group. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2012]
Function	Laminin alpha-5 receptor. May mediate intracellular signaling. [UniProt]
Calculated Mw	67 kDa
PTM	Epinephrine-stimulated phosphorylation of Ser-621 by PKA enhances adhesion to laminin.