

Mouse ALCAM/CD166 Alexa Fluor® 647-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 200622 Catalog Number: FAB1172R

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DESCRIPTION			
Species Reactivity	Mouse		
Specificity	Detects mouse ALCAM/CD166 in Western blots and direct ELISAs. In Western blots, shows 100% cross-reactivity with recombinant human (rh) ALCAM and no cross-reactivity with rhBCAM, rhEpCAM, recombinant mouse (rm) MAdCAM-1, rhMCAM, rmNCAM-L1, rmOCAM, or rmTROP-2.		
Source	Monoclonal Rat IgG _{2A} Clone # 200622		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse ALCAM/CD166 Trp28-Lys527 Accession # AAC06342		
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm		
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide.		
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data She (SDS) for additional information and handling instructions.		

APPLICATIONS				
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.				
	Recommended	Sample		
	Concentration			
Flow Cytometry	0.25-1 µg/10 ⁶ cells	Mouse splenocytes treated with PHA		

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.			

ALCAM, activated leukocyte cell adhesion molecule, is a type I membrane glycoprotein and a member of the immunoglobulin supergene family. It is also known as CD166, MEMD, SC-1/DM-GRASP/BEN in the chicken, and KG-CAM in the rat. ALCAM is expressed on thymic epithelial cells, activated B and T cells, and monocytes. ALCAM can bind itself homotypically and is also capable of binding CD6, NgCAM, and other, as of yet, unidentified brain proteins. ALCAM/CD6 interaction may be involved in T cell development and T cell regulation. Additionally, ALCAM/CD6 and ALCAM/NgCAM interactions may play roles in the nervous system. ALCAM has also been observed to be upregulated on highly metastasizing melanoma cell lines and may play a role in tumor migration. ALCAM is a 583 amino acid (aa) protein consisting of a 27 aa signal peptide, a 500 aa extracellular domain, a 24 aa transmembrane domain and a 32 aa cytoplasmic domain. The extracellular domain of ALCAM contains 5 Iq-like domains of which the amino-terminal V1 domain is essential for ligand binding and ALCAM-mediated cell aggregation (1-4).

References:

- 1. Bowen, M.A. et al. (1995) J. Exp. Med. 181:2213.
- 2. Aruffo, A. et al. (1997) Immunol. Today 18:498.
- 3. Degen, W.G. et al. (1998) Am. J. Pathol. 152:805.
- 4. Van Kempen, L. et al. (2001) J. Biol. Chem. 276:25783.

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