

Datasheet: MCA2658

Description:	MOUSE ANTI HUMAN CD50
Specificity:	CD50
Other names:	ICAM-3
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	Bu65
Isotype:	IgG1
Quantity:	0.2 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat - 1/200
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	
Functional Assays			▪	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
External Database Links	<p>UniProt: P32942 Related reagents</p> <p>Entrez Gene: 3385 ICAM3 Related reagents</p>
RRID	AB_2295698
Specificity	<p>Mouse anti Human CD50 antibody, clone Bu65 recognizes human CD50, also known as Inter-cellular adhesion molecule-3 (ICAM-3). CD50 is a ~110 kDa type I transmembrane glycoprotein, expressed mainly on resting leukocytes. It interacts with lymphocyte function-associated antigen-1 (LFA-1) and DC-SIGN, and is involved in the intercellular adhesion of leukocytes and augments CD3 signalling in T-lymphocyte activation.</p> <p>CD50 expression induces cancer cell proliferation and over-expression may contribute to cancer progression. It has also been implicated in limiting HIV-1 replication.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
Further Reading	<ol style="list-style-type: none"> 1. Biggins, J.E. <i>et al.</i> (2007) ICAM-3 influences human immunodeficiency virus type 1 replication in CD4(+) T cells independent of DC-SIGN-mediated transmission. Virology. 364 (2): 383-94. 2. Berney, S.M. <i>et al.</i> (1999) ICAM-3 (CD50) cross-linking augments signaling in CD3-activated peripheral human T lymphocytes. J Leukoc Biol. 65 (6): 867-74. 3. Kim, Y.G. <i>et al.</i> (2006) ICAM-3-induced cancer cell proliferation through the PI3K/Akt pathway. Cancer Lett. 239 (1): 103-10.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@680 , DyLight@800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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