Datasheet: MCA2658F

Description:	MOUSE ANTI HUMAN CD50:FITC
Specificity:	CD50
Other names:	ICAM-3
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	Bu65
Isotype:	IgG1
Quantity:	0.1 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 - 1/10

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 conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
FITC	490	525

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)
1% Bovine Serum Albumin

Approx. Protein Concentrations

IgG concentration 0.1mg/ml

External Database Links	**UniProt:** P32942 Related reagents **Entrez Gene:** 3385 ICAM3 Related reagents
RRID	AB_2122325
Specificity	**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. CD50 expression induces cancer cell proliferation and over-expression may contribute to cancer progression. It has also been implicated in limiting HIV-1 replication.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10^6 cells in 100ul.
Further Reading	1. Biggins, J.E. *et al.* (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. *et al.* (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. *et al.* (2006) ICAM-3-induced cancer cell proliferation through the PI3K/Akt pathway. Cancer Lett. 239 (1): 103-10.
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA928F)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A)
HUMAN SEROBLOCK (BUF070B)

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