

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	UniProt:

Links

[P32942](#)

[Related reagents](#)

Entrez Gene:

[3385](#)

ICAM3

[Related reagents](#)

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 1×10^6 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. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 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 (STAR76...)

[RPE](#)

Goat Anti Mouse IgG IgA IgM (STAR87...)

[Alk. Phos.](#), [HRP](#)

Goat Anti Mouse IgG (H/L) (STAR117...)

[Alk. Phos.](#), [DyLight®488](#), [DyLight®549](#),
[DyLight®649](#), [DyLight®680](#), [DyLight®800](#),
[FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR9...)

[FITC](#)

Goat Anti Mouse IgG (STAR77...)

[HRP](#)

Rabbit Anti Mouse IgG (STAR12...)

[RPE](#)

Goat Anti Mouse IgG (Fc) (STAR120...)

[FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR8...)

[DyLight®800](#)

Goat Anti Mouse IgG (STAR70...)

[FITC](#)

Rabbit Anti Mouse IgG (STAR13...)

[HRP](#)

Human Anti Mouse IgG1 (HCA036...) [HRP](#)

Recommended Negative Controls

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

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