

Datasheet: MCA1521F

BATCH NUMBER 158679

Description:	HAMSTER ANTI MOUSE CD154:FITC
Specificity:	CD154
Other names:	CD40 LIGAND
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	39H5
Isotype:	IgG
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

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

Target Species	Mouse		
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	0.09% Sodium Azide		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein	IgG concentration 0.1 mg/ml		

Concentrations

Immunogen	L cells transfected with CD40L.
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External Database Links

UniProt:

[P27548](#)

[Related reagents](#)

Entrez Gene:

[21947](#)

Cd40lg

[Related reagents](#)

Synonyms

Cd40l, Tnfsf5

RRID

AB_321591

Specificity

Hamster anti Mouse CD154 antibody, clone 39H5 recognizes the murine CD40 ligand, also known as CD40L or CD154. CD154 is a ~39 kDa cell surface glycoprotein . CD154 is expressed by activated CD4+ve T lymphocytes.

Hamster anti Mouse CD154 antibody, clone 39H5 is routinely tested in flow cytometry on mouse CD40L transfected L cells.

Flow Cytometry

Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.

The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR ([BUF041A/B](#)).

References

1. Hogg, K.G. *et al.* (2003) IL-10 regulates early IL-12-mediated immune responses induced by the radiation-attenuated schistosome vaccine. [Int Immunol. 15 \(12\): 1451-9.](#)
2. McGregor, C.M. *et al.* (2004) CD154 is a negative regulator of autoaggressive CD8+ T cells in type 1 diabetes. [Proc Natl Acad Sci U S A. 101 \(25\): 9345-50.](#)
3. Dong, L. *et al.* (2003) An immunostimulatory oligodeoxynucleotide containing a cytidine-guanosine motif protects senescence-accelerated mice from lethal influenza virus by augmenting the T helper type 1 response [J Gen Virol. 84: 1623-8.](#)
4. Neron, S. *et al.* (2005) Differential responses of human B-lymphocyte subpopulations to graded levels of CD40-CD154 interaction. [Immunology. 2005 Dec;116\(4\):454-63.](#)
5. Roy, A. *et al.* (2001) Increased efficiency of gamma-irradiated versus mitomycin C-treated feeder cells for the expansion of normal human cells in long-term cultures [J Hematother Stem Cell Res. 2001 Dec;10\(6\): 873-80.](#)
6. Mazar, J. *et al.* (2005) CD40 ligand (CD154) takes part in regulation of the transition to mononuclear cell dominance during peritonitis. [Kidney Int. 67: 1340-9.](#)
7. Hacker, U.T. *et al.* (2006) Gene transfer preferentially selects MHC class I positive tumour cells and enhances tumour immunogenicity. [Cancer Immunol Immunother. 55 \(5\): 547-57.](#)
8. Mazar, J. *et al.* (2005) CD40 ligand (CD154) takes part in regulation of the transition to mononuclear cell dominance during peritonitis. [Kidney Int. 67 \(4\): 1340-9.](#)
9. Serba, S. *et al.* (2008) Transfection with CD40L induces tumour suppression by dendritic cell activation in an orthotopic mouse model of pancreatic adenocarcinoma. [Gut.](#)

[57 \(3\): 344-51.](#)

10. Crother, T.R. *et al.* (2012) Plasmacytoid dendritic cells play a role for effective innate immune responses during *Chlamydia pneumoniae* infection in mice. [PLoS One. 7 \(10\): e48655.](#)

Storage	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1521F10041
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

[HAMSTER \(ARMENIAN\) IgG NEGATIVE CONTROL:FITC \(MCA2356F\)](#)

Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M384744:210513'

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