

Datasheet: MCA1521F

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	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>FITC</td> <td>490</td> <td>525</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	FITC	490	525
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 Concentrations	IgG concentration 0.1 mg/ml						
Immunogen	L cells transfected with CD40L.						
External Database Links	UniProt: P27548 Related reagents						

Entrez Gene:

[21947](#) Cd40lg [Related reagents](#)

Synonyms

Cd40l, Tnfsf5

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

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light.

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 #10041 available at:
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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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