

Datasheet: MCA1521F

BATCH NUMBER 173345

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 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	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 (NaN ₃)						
Stabilisers	1% bovine serum albumin						
Approx. Protein	IgG concentration 0.1 mg/ml						

Concentrations

Immunogen L cells transfected with CD40L.

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 10µl of the suggested working dilution to label 10⁶ cells in 100µl.

The Fc region of monoclonal antibodies may bind to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR ([BUF041A/BUF041B](#)).

References

1. 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.](#)
2. 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.](#)
3. 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.](#)
4. 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.](#)
5. 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.](#)
6. 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.](#)
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. 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.](#)
9. 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 \(10\):](#)

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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/MCA1521F
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 \(BUF041B\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

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

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