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

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
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
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	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.

Guarantee	12 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)

North & South America
Tel: +1 800 265 7376
Fax: +1 919 878 3751
Email: antibody_sales_us@bio-rad.com

Worldwide
Tel: +44 (0)1865 852 700
Fax: +44 (0)1865 852 739
Email: antibody_sales_uk@bio-rad.com

Europe
Tel: +49 (0) 89 8090 95 21
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