

Datasheet: MCA1968F

BATCH NUMBER 173104

Description:	MOUSE ANTI HUMAN CD154:FITC
Specificity:	CD154
Other names:	CD40 LIGAND, TRAP
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	MK13A4
Isotype:	IgG1
Quantity:	100 TESTS

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 - 1/20
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	

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 conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
Preparation	Antibody purified from tissue culture supernatant		
Buffer Solution	Tris buffered saline		
Preservative	<0.1% sodium azide (NaN ₃)		
Stabilisers	1% bovine serum albumin		

**External Database
Links**

UniProt:

[P29965](#) [Related reagents](#)

Entrez Gene:

[959](#) CD40LG [Related reagents](#)

Synonyms CD40L, TNFSF5, TRAP

RRID AB_323214

Specificity **Mouse anti Human CD154 antibody, clone MK13A4** recognizes the human CD154 cell surface antigen, a 32 kDa glycoprotein also known as CD40 ligand. CD154 is expressed on activated T lymphocytes, predominantly CD4+ve cells and also on some basophils and mast cells.

Mouse anti Human CD154 antibody, clone MK13A4 has been reported to block binding of CD40 ligand to its receptor CD40.

Flow Cytometry Use 10µl of the suggested working dilution to label 10⁶ cells in 100µl

References 1. Kaufman, J. *et al.* (2004) Expression of CD154 (CD40 ligand) by human lung fibroblasts: differential regulation by IFN-gamma and IL-13, and implications for fibrosis. [J Immunol. 172:1862-71](#)

2. Arita, S. *et al.* (2008) B cell activation regulates exosomal HLA production. [Eur J Immunol. 38 \(5\): 1423-34.](#)

3. Deambrosio, I. *et al.* (2009) Inhibition of CD40-CD154 costimulatory pathway by a cyclic peptide targeting CD154. [J Mol Med \(Berl\). 87 \(2\): 181-97.](#)

Storage 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.

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.

Guarantee 12 months from date of despatch

**Health And Safety
Information** Material Safety Datasheet documentation #10058 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA1968F>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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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