

## Datasheet: MCA1968F

**BATCH NUMBER 160629**

<b>Description:</b>	MOUSE ANTI HUMAN CD154:FITC
<b>Specificity:</b>	CD154
<b>Other names:</b>	CD40 LIGAND, TRAP
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	MK13A4
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat - 1/20
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	

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.

<b>Target Species</b>	Human		
<b>Product Form</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	FITC	490	525
<b>Buffer Solution</b>	Tris buffered saline		
<b>Preservative</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
<b>External Database Links</b>	<b>UniProt:</b>		

**Entrez Gene:**

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

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<b>Synonyms</b>	CD40L, TNFSF5, TRAP
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<b>RRID</b>	AB_323214
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<b>Specificity</b>	<p><b>Mouse anti Human CD154 antibody, clone MK13A4</b> 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.</p> <p>Mouse anti Human CD154 antibody, clone MK13A4 has been reported to block binding of CD40 ligand to its receptor CD40.</p>
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<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
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<b>References</b>	<ol style="list-style-type: none"><li>1. Koumas, L. <i>et al.</i> (2001) Fibroblast heterogeneity: existence of functionally distinct Thy 1(+) and Thy 1(-) human female reproductive tract fibroblasts. <a href="#">Am J Pathol. 159 (3): 925-35.</a></li><li>2. Kaufman, J. <i>et al.</i> (2004) Expression of CD154 (CD40 ligand) by human lung fibroblasts: differential regulation by IFN-gamma and IL-13, and implications for fibrosis. <a href="#">J Immunol. 172:1862-71</a></li><li>3. Arita, S. <i>et al.</i> (2008) B cell activation regulates exosomal HLA production. <a href="#">Eur J Immunol. 38 (5): 1423-34.</a></li><li>4. Deambrosis, I. <i>et al.</i> (2009) Inhibition of CD40-CD154 costimulatory pathway by a cyclic peptide targeting CD154. <a href="#">J Mol Med (Berl). 87 (2): 181-97.</a></li></ol>
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<b>Storage</b>	<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>
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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10058 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1968F">https://www.bio-rad-antibodies.com/SDS/MCA1968F</a> 10058
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<b>Regulatory</b>	For research purposes only
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## Related Products

## Recommended Negative Controls

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

## Recommended Useful Reagents

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

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

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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](https://bio-rad-antibodies.com/datasheets)

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