

## Datasheet: MCA647F

<b>Description:</b>	MOUSE ANTI HUMAN IgG (Fc) CH2 DOMAIN:FITC
<b>Specificity:</b>	IgG (Fc) (CH2 DOMAIN)
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	MK 1 A6
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat - 1/10
ELISA	▪			1/1000 - 1/10000

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. 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>Species Cross Reactivity</b>	Reacts with: Rhesus Monkey <b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.		
<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>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		

**Preservative** 0.09% Sodium Azide  
**Stabilisers** 1% Bovine Serum Albumin

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**Approx. Protein Concentrations** IgG concentration 0.1 mg/ml

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**Immunogen** Human IgG Polyclonal.

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**External Database Links**

**UniProt:**

[P01857](#) [Related reagents](#)  
[P01859](#) [Related reagents](#)  
[P01861](#) [Related reagents](#)  
[P01834](#) [Related reagents](#)  
[P01860](#) [Related reagents](#)  
[P0CG04](#) [Related reagents](#)

**Entrez Gene:**

[3500](#) IGHG1 [Related reagents](#)  
[3501](#) IGHG2 [Related reagents](#)  
[3502](#) IGHG3 [Related reagents](#)  
[3503](#) IGHG4 [Related reagents](#)  
[3514](#) IGKC [Related reagents](#)  
[28815](#) IGLV2-14 [Related reagents](#)

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**RRID** AB\_808612

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**Fusion Partners** Spleen cells from BALB/c mouse were fused with cells from the mouse NS1 myeloma cell line.

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**Specificity** **Mouse anti Human IgG (Fc) CH2 domain, clone MK 1 A6** recognizes human IgG Fc (all subclasses).

CH2 and hinge regions have an important role in effector functions of IgG. The epitope detected by clone MK 1 A6 lies within the CH2 domain as determined by haemagglutination and western blotting using IgG heavy chain and myelomas with defined domain deletions.

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**References**

1. Lund, J. *et al.* (1996) Multiple interactions of IgG with its core oligosaccharide can modulate recognition by complement and human Fc gamma receptor I and influence the synthesis of its oligosaccharide chains. [J Immunol. 157 \(11\): 4963-9.](#)
2. Wozniak-Knopp, G. *et al.* (2010) Introducing antigen-binding sites in structural loops of immunoglobulin constant domains: Fc fragments with engineered HER2/neu-binding sites and antibody properties. [Protein Eng Des Sel. 23: 289-97.](#)
3. Raghuraman, S. *et al.* (2012) Spontaneous clearance of chronic hepatitis C virus infection is associated with appearance of neutralizing antibodies and reversal of T-cell exhaustion. [J Infect Dis. 205: 763-71.](#)

4. Hasenhindl, C. *et al.* (2013) Stability assessment on a library scale: a rapid method for the evaluation of the commutability and insertion of residues in C-terminal loops of the CH3 domains of IgG1-Fc. [Protein Eng Des Sel. 26 \(10\): 675-82.](#)
5. Rasti, N. *et al.* (2006) Nonimmune immunoglobulin binding and multiple adhesion characterize Plasmodium falciparum-infected erythrocytes of placental origin. [Proc Natl Acad Sci U S A. 103: 13795-800.](#)
6. Traxlmayr, M.W. *et al.* (2014) Construction of pH-sensitive Her2-binding IgG1-Fc by directed evolution. [Biotechnol J. 9: 1013-22.](#)

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**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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10041 available at: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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**Regulatory** For research purposes only

## Related Products

### Recommended Negative Controls

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

### Recommended Useful Reagents

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

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

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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://www.bio-rad-antibodies.com/datasheets)

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