

## Datasheet: MCA1539T

<b>Description:</b>	MOUSE ANTI HUMAN CD95
<b>Specificity:</b>	CD95
<b>Other names:</b>	FAS, TNFRSF6
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	LOB 3/17
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	25 µg

## 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	▪			1/50 - 1/100
Immunohistology - Frozen		▪		
Immunohistology - Paraffin		▪		
ELISA			▪	
Immunoprecipitation	▪			20ug/ml
Western Blotting			▪	

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

### Species Cross Reactivity

Reacts with: Rhesus Monkey

**N.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.

### Product Form

Purified IgG - liquid

### Preparation

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

<b>Buffer Solution</b>	TRIS buffered saline
<b>Preservative Stabilisers</b>	<0.1% sodium azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Fusion protein comprising extracellular domain of human Fas linked to human Fc.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P25445</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">355</a>    FAS    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	APT1, FAS1, TNFRSF6
<b>RRID</b>	AB_1102478
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NSI myeloma cell line.
<b>Specificity</b>	<b>Mouse anti Human CD95 antibody, clone LOB 3/17</b> recognizes the human CD95 cell surface antigen, also known as Tumor necrosis factor receptor superfamily member 6, Fas, Apo-1 antigen, Apoptosis-mediating surface antigen FAS or FASLG receptor. CD95 is a 310 amino acid ~40-50 kDa single pass type I transmembrane glycoprotein expressed by activated T and B cells, NK cells and thymocytes. Mutations in the CD95 gene, FAS can lead to the development of Autoimmune lymphoproliferative syndrome 1A ( <a href="#">ALPS1A</a> ), an apoptotic disorder with early onset resulting in an accumulation of autoreactive lymphocytes ( <a href="#">Peters <i>et al.</i> 1999</a> ).
<b>Flow Cytometry</b>	Use 10µl of the suggested working dilution to label 10 <sup>6</sup> cells in 100µl
<b>References</b>	<ol style="list-style-type: none"> <li>Mesdaghi, M. <i>et al.</i> (2010) Natural killer cells in allergic rhinitis patients and nonatopic controls. <a href="#">Int Arch Allergy Immunol. 153 (3): 234-8.</a></li> <li>Ximeri, M. <i>et al.</i> (2010) Effect of lenalidomide therapy on hematopoiesis of patients with myelodysplastic syndrome associated with chromosome 5q deletion. <a href="#">Haematologica. 95 (3): 406-14.</a></li> <li>Aref, S. <i>et al.</i> (2004) Accelerated neutrophil apoptosis in neutropenic patients with hepatosplenic schistosomiasis is induced by serum Fas ligand. <a href="#">Hematol J. 5 (5): 434-9.</a></li> <li>Welsh, J.P. <i>et al.</i> (2004) In vitro effects of interferon-gamma and tumor necrosis factor-alpha on CD34+ bone marrow progenitor cells from aplastic anemia patients and normal donors. <a href="#">Hematol J. 5 (1): 39-46.</a></li> <li>Wethkamp, N. <i>et al.</i> (2011) Daxx-beta and Daxx-gamma, two novel splice variants of the transcriptional co-repressor Daxx. <a href="#">J Biol Chem. 286 (22): 19576-88.</a></li> <li>Chen, J.Y. <i>et al.</i> (2003) TNF-alpha renders human peritoneal mesothelial cells sensitive to anti-Fas antibody-induced apoptosis. <a href="#">Nephrol Dial Transplant. 18 (9): 1741-7.</a></li> </ol>

7. Papadaki, H.A. *et al.* (2002) Bone marrow progenitor cell reserve and function and stromal cell function are defective in rheumatoid arthritis: evidence for a tumor necrosis factor alpha-mediated effect. [Blood. 99 \(5\): 1610-9.](#)
8. Mavroudi, I. *et al.* (2011) The CD40/CD40 ligand interactions exert pleiotropic effects on bone marrow granulopoiesis. [J Leukoc Biol. 89 \(5\): 771-83.](#)
9. Pyrovolaki, K. *et al.* (2009) Increased expression of CD40 on bone marrow CD34+ hematopoietic progenitor cells in patients with systemic lupus erythematosus: contribution to Fas-mediated apoptosis. [Arthritis Rheum. 60 \(2\): 543-52.](#)
10. Boula, A. *et al.* (2006) Effect of cA2 anti-tumor necrosis factor-alpha antibody therapy on hematopoiesis of patients with myelodysplastic syndromes. [Clin Cancer Res. 12 \(10\): 3099-108.](#)
11. Papadaki, H.A. *et al.* (2005) Normal bone marrow hematopoietic stem cell reserves and normal stromal cell function support the use of autologous stem cell transplantation in patients with multiple sclerosis. [Bone Marrow Transplant. 36 \(12\): 1053-63.](#)
12. Bachsais, M. *et al.* (2016) The Interaction of CD154 with the  $\alpha 5\beta 1$  Integrin Inhibits Fas-Induced T Cell Death. [PLoS One. 11 \(7\): e0158987.](#)
13. Ismail, M. *et al.* (2001) Bcl-2 and Bcl-x expression in the CD34+ cells of aplastic anaemia patients: relationship with increased apoptosis and upregulation of Fas antigen. [Br J Haematol. 113 \(3\): 706-12.](#)
14. Bachsais, M. *et al.* (2020) CD154 inhibits death of T cells via a Cis interaction with the  $\alpha 5\beta 1$  integrin. [PLoS One. 15 \(8\): e0235753.](#)
15. Ismail, M.M. *et al.* (2003) Differential apoptosis and Fas expression on GPI-negative and GPI-positive stem cells: a mechanism for the evolution of paroxysmal nocturnal haemoglobinuria. [Br J Haematol. 123 \(3\): 545-51.](#)

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**Further Reading** 1. Paulsen, M. & Janssen, O. (2011) Pro- and anti-apoptotic CD95 signaling in T cells. [Cell Commun Signal. 9: 7.](#)

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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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10057 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1539T>  
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**Regulatory** For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) [HRP](#)

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)  
Goat Anti Mouse IgG (STAR70...) [FITC](#)  
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)  
Goat Anti Mouse IgG (STAR76...) [RPE](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),  
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),  
[FITC](#), [HRP](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

### **Recommended Negative Controls**

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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)  
'M410569:221028'

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