

## Datasheet: MCA1539T

<b>Description:</b>	MOUSE ANTI HUMAN CD95
<b>Specificity:</b>	CD95
<b>Other names:</b>	FAS
<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 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>Species Cross Reactivity</b>	Reacts with: Rhesus Monkey <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A
<b>Buffer Solution</b>	TRIS buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide
<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.

**External Database  
Links**

**UniProt:**

[P25445](#)   [Related reagents](#)

**Entrez Gene:**

[355](#)   FAS   [Related reagents](#)

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**Synonyms**

APT1, FAS1, TNFRSF6

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**Fusion Partners**

Spleen cells from immunised BALB/c mice were fused with cells of the mouse NSI myeloma cell line.

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**Specificity**

**Mouse anti Human CD95 antibody, clone LOB 3/17** 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 ([ALPS1A](#)), an apoptotic disorder with early onset resulting in an accumulation of autoreactive lymphocytes ([Peters et al. 1999](#)).

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**Flow Cytometry**

Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

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**References**

1. Mesdaghi, M. *et al.* (2010) Natural killer cells in allergic rhinitis patients and nonatopic controls. [Int Arch Allergy Immunol. 153 \(3\): 234-8.](#)
2. Ximeri, M. *et al.* (2010) Effect of lenalidomide therapy on hematopoiesis of patients with myelodysplastic syndrome associated with chromosome 5q deletion. [Haematologica. 95 \(3\): 406-14.](#)
3. Aref, S. *et al.* (2004) Accelerated neutrophil apoptosis in neutropenic patients with hepatosplenic schistosomiasis is induced by serum Fas ligand. [Hematol J. 5 \(5\): 434-9.](#)
4. Welsh, J.P. *et al.* (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. [Hematol J. 5 \(1\): 39-46.](#)
5. Wethkamp, N. *et al.* (2011) Daxx-beta and Daxx-gamma, two novel splice variants of the transcriptional co-repressor Daxx. [J Biol Chem. 286 \(22\): 19576-88.](#)
6. Chen, J.Y. *et al.* (2003) TNF-alpha renders human peritoneal mesothelial cells sensitive to anti-Fas antibody-induced apoptosis. [Nephrol Dial Transplant. 18 \(9\): 1741-7.](#)
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 α5β1 Integrin Inhibits Fas-Induced T Cell Death. [PLoS One. 11 \(7\): e0158987.](#)

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**Further Reading**

1. Paulsen, M. & Janssen, O. (2011) Pro- and anti-apoptotic CD95 signaling in T cells. [Cell](#)

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<b>Storage</b>	Store at +4°C or at -20°C if preferred.  This product should be stored undiluted.  Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
<b>Shelf Life</b>	18 months from date of despatch.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10057 available at: 10057: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10057.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10057.pdf</a>
<b>Regulatory</b>	For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight@488</a> , <a href="#">DyLight@549</a> , <a href="#">DyLight@649</a> , <a href="#">DyLight@680</a> , <a href="#">DyLight@800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR8...)	<a href="#">DyLight@800</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Human Anti Mouse IgG1 (HCA036...)	<a href="#">HRP</a>

### 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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