

Datasheet: MCA1539T

BATCH NUMBER 151572

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| Description: | MOUSE ANTI HUMAN CD95 |
| Specificity: | CD95 |
| Other names: | FAS |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | LOB 3/17 |
| Isotype: | IgG1 |
| Quantity: | 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.

| | 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.

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| Target Species | Human |
| Species Cross Reactivity | <p>Reacts with: Rhesus Monkey</p> <p>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.</p> |
| Product Form | Purified IgG - liquid |
| Preparation | Purified IgG prepared by affinity chromatography on Protein A |

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| Buffer Solution | TRIS buffered saline |
| Preservative Stabilisers | 0.09% Sodium Azide |
| Approx. Protein Concentrations | IgG concentration 1.0 mg/ml |
| Immunogen | Fusion protein comprising extracellular domain of human Fas linked to human Fc. |
| External Database Links | <p>UniProt: P25445 Related reagents</p> <p>Entrez Gene: 355 FAS Related reagents</p> |
| Synonyms | APT1, FAS1, TNFRSF6 |
| RRID | AB_1102478 |
| Fusion Partners | Spleen cells from immunised BALB/c mice were fused with cells of the mouse NSI myeloma cell line. |
| Specificity | <p>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).</p> |
| Flow Cytometry | Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul. |
| References | <ol style="list-style-type: none"> Mesdaghi, M. <i>et al.</i> (2010) Natural killer cells in allergic rhinitis patients and nonatopic controls. Int Arch Allergy Immunol. 153 (3): 234-8. Ximeri, M. <i>et al.</i> (2010) Effect of lenalidomide therapy on hematopoiesis of patients with myelodysplastic syndrome associated with chromosome 5q deletion. Haematologica. 95 (3): 406-14. Aref, S. <i>et al.</i> (2004) Accelerated neutrophil apoptosis in neutropenic patients with hepatosplenic schistosomiasis is induced by serum Fas ligand. Hematol J. 5 (5): 434-9. 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. Hematol J. 5 (1): 39-46. Wethkamp, N. <i>et al.</i> (2011) Daxx-beta and Daxx-gamma, two novel splice variants of the transcriptional co-repressor Daxx. J Biol Chem. 286 (22): 19576-88. Chen, J.Y. <i>et al.</i> (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 $\alpha 5\beta 1$ 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 | <p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>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.</p> |
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| Guarantee | 12 months from date of despatch |
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| Health And Safety Information | <p>Material Safety Datasheet documentation #10057 available at: https://www.bio-rad-antibodies.com/SDS/MCA1539T</p> <p>10057</p> |
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| Regulatory | For research purposes only |
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Related Products

Recommended Secondary Antibodies

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| Rabbit Anti Mouse IgG (STAR12...) | RPE |
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Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)
 Goat Anti Mouse IgG (STAR76...) [RPE](#)
 Goat Anti Mouse IgG (STAR70...) [FITC](#)
 Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),
[FITC](#), [HRP](#)
 Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
 Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
 Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
 Goat Anti Mouse IgG (STAR77...) [HRP](#)

Recommended Negative Controls

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

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| North & South America | Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com | Worldwide | Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com | Europe | Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com |
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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
 'M365394:200529'

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