

Datasheet: MCA1539FT

Description:	MOUSE ANTI HUMAN CD95:FITC
Specificity:	CD95
Other names:	FAS
Format:	FITC
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	■			Neat - 1/10

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.

Target Species	Human		
Species Cross Reactivity	Reacts with: Rhesus Monkey N.B. Antibody reactivity and working conditions may vary between species.		
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
Preparation	Purified IgG prepared by affinity chromatography on Protein A		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml		
Immunogen	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](#)

Synonyms

APT1, FAS1, TNFRSF6

Fusion Partners

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

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](#)).

Flow Cytometry

Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

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.](#)

Further Reading

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

Storage	Store at +4°C or at -20°C if preferred. This product should be stored undiluted. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
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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