Datasheet: MCA1539A647

Description:	MOUSE ANTI HUMAN CD95:Alexa Fluor® 647
Specificity:	CD95
Other names:	FAS
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	LOB 3/17
Isotype:	IgG1
Quantity:	100 TESTS/1ml

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 Alexa Fluor® 647 - liquid

Max Ex/Em

Fluorophore	Excitation (nm)	Emission (nm)
Alexa Fluor®647	650	665

Preparation

Purified IgG prepared by affinity chromatography on Protein A

Buffer Solution

TRIS buffered saline

Preservative Stabilisers

0.09% Sodium Azide
1% Bovine Serum Albumin

Approx. Protein Concentrations

IgG concentration 0.05 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 10^6 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: 234-38. 2. Ximeri, M. *et al.*. (2010) Effect of lenalidomide therapy on hematopoiesis of patients with myelodysplastic syndrome associated with chromosome 5q deletion. Haematologica. 95: 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: 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: 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: 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: 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: 1610-9. 8. Mavroudi, I. *et al.* (2011) The CD40/CD40 ligand interactions exert pleiotropic effects on bone marrow granulopoiesis. J Leukoc Biol. 89: 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: 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: 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: 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. and Janssen, O. (2011) Pro- and anti-apoptotic CD95 signaling in T cells. Cell

	Commun Signal. 9:7.
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.
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Health And Safety Information	Material Safety Datasheet Documentation #10058 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A)
HUMAN SEROBLOCK (BUF070B)

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