

Datasheet: MCA1395F

Description:	MOUSE ANTI HUMAN TNF ALPHA:FITC
Specificity:	TNF ALPHA
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	B-D9
Isotype:	IgG1
Quantity:	0.1 mg

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)	■			Neat - 1/10
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	

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.

(1) **Membrane permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm™ (BUF09A) for this purpose.**

Target Species	Human		
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC)		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
Preparation	Purified IgG prepared by ion exchange chromatography		
Buffer Solution	Phosphate buffered saline.		
Preservative Stabilisers	0.1% Sodium Azide, 5% Bovine Serum Albumin.		
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml		
Immunogen	Recombinant human TNF-alpha.		
External Database	UniProt:		

Links

[P01375](#) [Related reagents](#)

Entrez Gene:

[7124](#) TNF [Related reagents](#)

Synonyms

TNFA, TNFSF2

Fusion Partners

Spleen cells from immunised BALB/c mice were fused with cells of the mouse X63 Ag8.653 myeloma cell line.

Specificity

Mouse anti Human TNF alpha antibody, clone B-D9 recognizes human TNF-alpha, both natural and recombinant forms. The FITC conjugated reagent is designed for the detection and enumeration of TNF-alpha expressing cells in flow cytometric assays following cell membrane permeabilisation.

Flow Cytometry

Use 10ul of the suggested working dilution to label 5×10^5 cells in 50µl

References

1. North, M.E. *et al.* (1998) Primary defect in CD8+ lymphocytes in the antibody deficiency disease (common variable immunodeficiency): abnormalities in intracellular production of interferon-gamma (IFN-gamma) in CD28+ ('cytotoxic') and CD28- ('suppressor') CD8+ subsets. [Clin Exp Immunol. 111 \(1\): 70-5.](#)
2. North, M.E. *et al.* (1996) Intracellular cytokine production by human CD4+ and CD8+ T cells from normal and immunodeficient donors using directly conjugated anti-cytokine antibodies and three-colour flow cytometry. [Clin Exp Immunol. 105: 517-22.](#)
3. Sewell, W.A. *et al.* (1997) Determination of intracellular cytokines by flow-cytometry following whole-blood culture. [J Immunol Methods. 209: 67-74.](#)
4. Sewell, W.A. *et al.* (1999) *In vivo* modulation of cytokine synthesis by intravenous immunoglobulin. [Clin Exp Immunol. 116: 509-15.](#)
5. Hart, A.L. *et al.* (2004) Prospective evaluation of intestinal homing memory T cells in ulcerative colitis [Inflamm Bowel Dis. 10: 496-503.](#)

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 #10304 available at:
10304: <https://www.bio-rad-antibodies.com/uploads/MSDS/10304.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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