

Technical Data Sheet

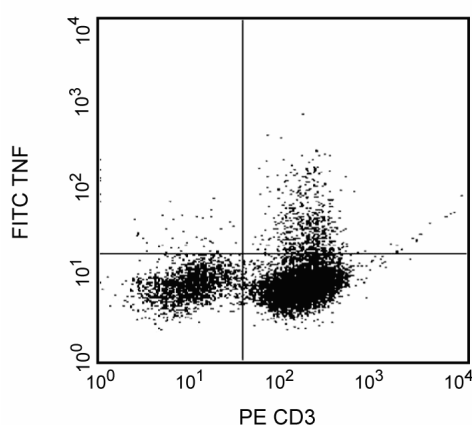
FITC Mouse Anti-Human TNF

Product Information

Material Number:	552889
Alternate Name:	Tumor necrosis factor alpha; TNF- α ; TNF- α ; TNFSF2; Cachectin
Size:	50 Tests
Vol. per Test:	20 μ l
Clone:	MAb11
Immunogen:	Recombinant Human TNF
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Rhesus, Cynomolgus, Baboon Tested in Development: Human
Storage Buffer:	Aqueous buffered solution containing BSA and $\leq 0.09\%$ sodium azide.

Description

The MAb11 monoclonal antibody specifically binds to human tumor necrosis factor (TNF, also known as TNF- α) protein. TNF is an efficient juxtacrine, paracrine and endocrine mediator of inflammatory and immune functions. It regulates the growth and differentiation of a variety of cell types. TNF is cytotoxic for transformed cells when in conjunction with IFN- γ . It is secreted by activated monocytes/macrophages and other cells such as B cells, T cells and fibroblasts. The immunogen used to generate the MAb11 hybridoma was recombinant human TNF. The MAb11 antibody has been reported to crossreact with Rhesus Macaque TNF.



Flow cytometric analysis of TNF expression in stimulated Rhesus macaque peripheral blood lymphocytes. Peripheral blood mononuclear cells were stimulated for 6 hours with Phorbol 12-Myristate 13-Acetate (Sigma P-8139; 50 ng/ml final concentration) and Ionomycin (Sigma I-0634; 1 μ g/ml final concentration) in the presence of BD GolgiStop™ Protein Transport Inhibitor (containing Monensin) (Cat. No. 554724). The cells were harvested, washed with BD Pharmingen™ Stain Buffer (Cat. No. 554656/554657), and fixed with BD Cytotfix™ Fixation Buffer (Cat. No. 554655). The cells were then washed and stained in BD Perm/Wash™ Buffer (Cat. No. 554723) with PE Mouse Anti-Human CD3 ϵ (Cat. No. 556612) and FITC Anti-Human TNF antibody (Cat. No. 552889). Two-color flow cytometric dot plots showing the correlated expression of TNF versus CD3 were derived from gated events with the forward and side light-scatter characteristics of intact lymphocytes.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with FITC under optimum conditions, and unreacted FITC was removed.

Application Notes

Application

Intracellular staining (flow cytometry)	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
556649	FITC Mouse IgG1, κ Isotype Control	50 Tests	MOPC-21
554715	BD Cytotfix/Cytoperm Plus Kit (with BD GolgiStop)	250 Tests	(none)
554656	Stain Buffer (FBS)	500 mL	(none)
554657	Stain Buffer (BSA)	500 mL	(none)
556612	PE Mouse Anti-Human CD3 ϵ	50 Tests	SP34
554724	Protein Transport Inhibitor (Containing Monensin)	0.7 mL	(none)
554723	Perm/Wash Buffer	100 mL	(none)
554655	Fixation Buffer	100 mL	(none)

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552889 Rev. 2



Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1×10^6 cells in a 100- μ l experimental sample (a test).
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
6. Species testing during development may have been performed with a different format of the same clone. Selected applications have been tested for cross-reactivity.
7. Please refer to www.bdbiosciences.com/pharming/protocols for technical protocols.

References

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