



1F-688-T025

## Monoclonal Antibody to TNF-alpha Fluorescein (FITC) conjugated (25 tests)

<b>Clone:</b>	MAb11
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	The mouse monoclonal antibody MAb11 recognizes human 17-26 kDa cytokine TNF-alpha (tumor necrosis factor alpha).
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	Recombinant human TNF-alpha
<b>Species Reactivity:</b>	Human, Non-Human Primates, Porcine
<b>Preparation:</b>	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
<b>Storage Buffer:</b>	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
<b>Storage / Stability:</b>	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
<b>Usage:</b>	The reagent is designed for Flow Cytometry analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10 <sup>6</sup> cells in a suspension. The content of a vial (0.1 ml) is sufficient for 25 tests.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	TNF-alpha is a cytokine produced by monocytes, macrophages, neutrophils, NK cells, CD4+ T cells and many transformed cells. It can be expressed as a 17 kDa free molecule, or as a 26 kDa membrane protein. TNF-alpha easily forms stable trimers, but also other multimeric complexes. In the immune system, it is an important regulator, which has cytolytic and cytostatic activity against a range of tumor cells, increases fibroblast proliferation and supports neutrophil chemotaxis and phagocytosis.
<b>References:</b>	*Wahlström J, Katchar K, Wigzell H, Olerup O, Eklund A, Grunewald J: Analysis of intracellular cytokines in CD4+ and CD8+ lung and blood T cells in sarcoidosis. <i>Am J Respir Crit Care Med.</i> 2001 Jan;163(1):115-21. *Yan SR, Qing G, Byers DM, Stadnyk AW, Al-Hertani W, Bortolussi R: Role of MyD88 in diminished tumor necrosis factor alpha production by newborn mononuclear cells in response to lipopolysaccharide. <i>Infect Immun.</i> 2004 Mar;72(3):1223-9. *Visser J, Graffelman W, Blauw B, Haspels I, Lentjes E, de Kloet ER, Nagelkerken L: LPS-induced IL-10 production in whole blood cultures from chronic fatigue syndrome patients is increased but supersensitive to inhibition by dexamethasone. <i>J Neuroimmunol.</i> 2001 Oct 1;119(2):343-9. *Cesaro-Tadic S, Dernick G, Juncker D, Buurman G, Kropshofer H, Michel B, Fattinger C, Delamarche E: High-sensitivity miniaturized immunoassays for tumor necrosis factor alpha using microfluidic systems. <i>Lab Chip.</i> 2004 Dec;4(6):563-9. *Attarbaschi T, Willheim M, Ramharter M, Hofmann A, Wahl K, Winkler H, Graninger W, Winkler S: T cell cytokine profile during primary Epstein-Barr virus infection (infectious mononucleosis). <i>Eur Cytokine Netw.</i> 2003 Jan-Mar;14(1):34-9.

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