

Product Data Sheet

APC anti-human TNF-α

Catalog # / Size: 502913 / 50 µg

502912 / 100 tests

Clone: MAb11

Isotype: Mouse IgG1, κ

Immunogen: *E. coli*-expressed, recombinant human TNF-α

Reactivity: Human, Cross-Reactivity: Chimpanzee, Baboon, Cynomolgus, Rhesus,

Pigtailed Macaque, Sooty Mangabey, Swine (Pig, Porcine)

Preparation: The antibody was purified by affinity chromatography, and conjugated with

APC under optimal conditions. The solution is free of unconjugated APC and

unconjugated antibody.

Formulation: test size: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium

azide and 0.2% (w/v) BSA (origin USA).

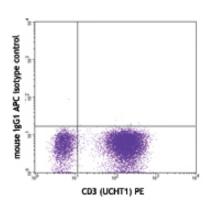
μg size: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium

azide.

Concentration: test size: lot-specific; µg size: 0.2 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C and protected from

prolonged exposure to light. Do not freeze.



PMA/ionomycin-stimulated (6 hours) human peripheral blood lymphocyte's stained with mouse IgG1 APC isotype control and CD3 (UCHT1) PE

CD3 (UCHT1) PE

PMA/ionomycin-stimulated (6 hours)

human peripheral blood lymphocytes

stained with MAb11 APC and CD3

(UCHT1) PE

Applications:

Applications: ICFC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by intracellular

immunofluorescent staining with flow cytometric analysis. **Test size products** are transitioning from 20 µl to 5 µl per test. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μl staining volume or per 100 μl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more

at www.biolegend.com/testsize regarding the test size change.

Application Notes: ELISA or ELISPOT Detection: The biotinylated MAb11 antibody is useful as the detection antibody in a sandwich ELISA or ELISPOT, when used in

conjunction with the purified MAb1 antibody (Cat. No. 502802/502804) as the capture antibody.

Flow Cytometry^{3,5,6}: The fluorochrome-labeled MAb11 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to

identify TNF- α -producing cells within mixed cell populations. Additional reported applications (for the relevant formats) include: neutralization^{1,2}, immunohistochemical staining of paraformaldehyde-fixed, saponin-treated frozen tissue sections⁴ and acetone-fixed frozen tissue sections⁸, and immunocytochemistry⁷. The MAb11 antibody can neutralize

the bioactivity of natural or recombinant TNF- α .

Note: For testing human TNF- α in serum or plasma, BioLegend's ELISA Max ™ Sets (Cat. No. 430201 to 430206) are specially developed and

recommended. The LEAF™ purified antibody (Endotoxin <0.1 EU/μg, Azide-Free, 0.2 μm filtered) is recommended for neutralization of human

TNF- α bioactivity (Cat. No. 502922).

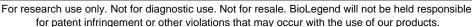
Application References: 1. Rathjen D, et al. 1991. Mol. Immunol. 28:79. (Neut)

2. Danis V, et al. 1991. Clin. Exp. Immunol. 85:143. (Neut)
3. Enr quez J, et al. 2002. Adv. Perit. Dial. 18:177. (ICFC)
4. Andersson U, et al. 1999. Detection and quantification of gene expression. New York:Springer-Verlag. (IHC)
5. Chen H, et al. 2005. J. Immunol. 175:591. (ICFC)

6. Iwamoto S, et al. 2007. J. Immunol. 179:1449. (ICFC) PubMed

7. Andersson U, *et al.* 2000. *J. Exp. Med.* 192:565. (ICC) 8. Moormann AM, *et al.* 1999. *J. Infect. Dis.* 180:1987. (IHC)

Description: TNF-α is secreted by macrophages, monocytes, neutrophils, T cells (principally CD4+), and NK cells. Many transformed cell lines also secrete TNF- α . Monomeric human TNF- α is a 157 amino acid protein (non-glycosylated) with a reported molecular weight of 17 kD. TNF- α forms multimeric complexes; stable trimers are most common in solution. A 26 kD membrane form of TNF- α has also been described. TNF- α binding to surface receptors elicits a wide array of biological activities including: cytolysis and cytostasis of many tumor cell lines in vitro, hemorraghic





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necrosis of tumors in vivo, increased fibroblast proliferation, and enhanced chemotaxis and phagocytosis in neutrophils.

Antigen References: 1. Fitzgerald K, et al. Eds. 2001. The Cytokine FactsBook. Academic Press, San Diego.

2. Beutler B, *et al.* 1988. *Annu. Rev. Biochem.* 57:505. 3. Beutler B, *et al.* 1989. *Annu. Rev. Immunol.* 7:625. 4. Tracey K, et al. 1993. Crit. Care Med. 21:S415.

Related Products: Product MOPC-21

Application FC, ICFC FC, ICC, ICFC ICC, ICFC ICC, ICFC, IHC APC Mouse IgG1, κ Isotype Ctrl Cell Staining Buffer Fixation Buffer Permeabilization Wash Buffer (10X)

FC, ICFC RBC Lysis Buffer (10X) Brefeldin A Solution (1,000X) Monensin Solution (1,000X) ICFC ICFC APC Mouse IgG1, k Isotype Ctrl (ICFC) MOPC-21 **ICFC**



