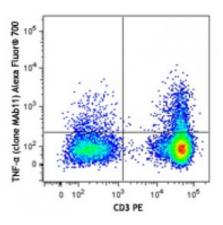
Product Data Sheet

Alexa Fluor[®] 700 anti-human TNF-α

Catalog # / Size:	3114640 / 100 tests 3114635 / 25 tests
Clone:	MAb11
Isotype:	Mouse IgG1, κ
Immunogen:	<i>E. coli</i> -expressed, recombinant human TNF-α
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 700 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Concentration:	Lot-specific

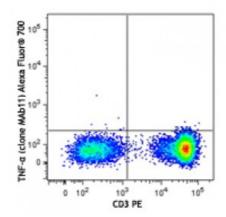


PMA+ionomycin-stimulated (6 hours) human peripheral blood lymphocytes (in the presence of monensin) were stained with CD3 PE, then fixed, permeabilized and stained with TNF- α (clone MAb11) Alexa Fluor® 700 (top). The bottom dot plot shows the st

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
	* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

ELISA or ELISPOT Detection: The Application biotinylated MAb11 antibody is useful as Notes: 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^{3,5,6,10}: The fluorochrome-labeled MAb11 antibody is useful for intracellular and membranebound immunofluorescent staining and



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	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 sections ⁸ , immunocytochemistry ⁷ , and immunofluorescence ⁹ . 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 TM Sets (Cat. No. 430201 to 430206) are specially developed and recommended. The LEAF TM 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). The Purified MAb1 antibody is useful in neutralization2 and as the capture antibody in a sandwich ELISA or ELISPOT assay, when used in conjunction with the biotinylated MAb11 antibody (Cat. No. 502904/502914) as the detecting antibody.
Application References:	 Rathjen D, <i>et al.</i> 1991. <i>Mol. Immunol.</i> 28:79. (Neut) Danis V, <i>et al.</i> 1991. <i>Clin. Exp. Immunol.</i> 85:143. (Neut) Enr quez J, <i>et al.</i> 2002. <i>Adv. Perit. Dial.</i> 18:177. (ICFC) Andersson U, <i>et al.</i> 1999. <i>Detection and quantification of gene expression.</i> New York:Springer-Verlag. (IHC) Chen H, <i>et al.</i> 2005. <i>J. Immunol.</i> 175:591. (ICFC) Iwamoto S, <i>et al.</i> 2007. <i>J. Immunol.</i> 179:1449. (ICFC) <u>PubMed</u> Andersson U, <i>et al.</i> 1999. <i>J. Infect. Dis.</i> 180:1987. (IHC) Zhao XJ, <i>et al.</i> 2003. <i>J. Immunol.</i> 170:2923. (IF) Rieger R, <i>et al.</i> 2009. <i>Cancer Gene Ther.</i> 1:53-64. (FC)
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 <i>in vitro</i> , hemorraghic necrosis of tumors <i>in vivo</i> , increased fibroblast proliferation, and enhanced chemotaxis and phagocytosis in neutrophils.
Antigen References:	 Fitzgerald K, <i>et al.</i> Eds. 2001. The Cytokine FactsBook. Academic Press, San Diego. Beutler B, <i>et al.</i> 1988. <i>Annu. Rev. Biochem.</i> 57:505. Beutler B, <i>et al.</i> 1989. <i>Annu. Rev. Immunol.</i> 7:625.

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