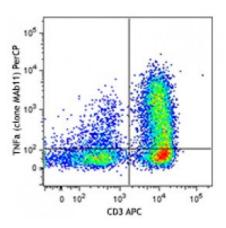
## **Product Data Sheet**

## PerCP anti-human TNF-α

Catalog # / Size:	3114615 / 25 tests 3114620 / 100 tests
Clone:	MAb11
Isotype:	Mouse IgG1, к
Immunogen:	<i>E. coli</i> -expressed, recombinant human TNF-α
<b>Reactivity:</b>	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with PerCP under optimal conditions. The solution is free of unconjugated PerCP and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
<b>Concentration:</b>	Lot-specific



PMA + ionomycin stimulated (six hours) human peripheral blood lymphocytes (in the presence of monensin) were stained with CD3 APC, fixed, permeabilized, and then stained with TNF- $\alpha$  (clone MAb11) PerCP (top) or mouse IgG1,  $\kappa$  PerCP isotype contr

## **Applications:**

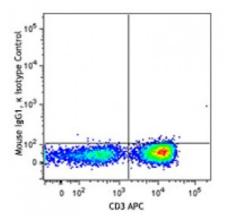
Applications:	Flow Cytometry
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Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL 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.

> \* PerCP has a maximum absorption of 482 nm and a maximum emission of 675 nm.

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## Application ELISA or ELISPOT Detection: The



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Notes:	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. <b>Flow Cytometry<sup>3,5,6,10</sup>:</b> The fluorochrome-labeled MAb11 antibody is useful for intracellular and membrane- bound immunofluorescent staining and flow cytometric analysis to identify TNF- α-producing cells within mixed cell populations. <b>Additional reported applications</b>
	(for the relevant formats) include: neutralization <sup>1,2</sup> , immunohistochemical staining of paraformaldehyde-fixed, saponin-treated frozen tissue sections4 and acetone-fixed frozen tissue
	sections <sup>8</sup> , immunocytochemistry <sup>7</sup> , and immunofluorescence <sup>9</sup> . The MAb11 antibody can neutralize the bioactivity of natural or recombinant TNF- $\alpha$ . <b>Note:</b> For testing human TNF- $\alpha$ in serum or plasma, BioLegend's ELISA Max <sup>TM</sup> Sets (Cat. No. 430201 to 430206) are specially developed and recommended. The LEAF <sup>TM</sup> purified antibody (Endotoxin <0.1 EU/µg, Azide- Free, 0.2 µm filtered) is recommended for neutralization of human TNF- $\alpha$ 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:	<ol> <li>Rathjen D, <i>et al.</i> 1991. <i>Mol. Immunol.</i> 28:79. (Neut)</li> <li>Danis V, <i>et al.</i> 1991. <i>Clin. Exp. Immunol.</i> 85:143. (Neut)</li> <li>Enr quez J, <i>et al.</i> 2002. <i>Adv. Perit. Dial.</i> 18:177. (ICFC)</li> <li>Andersson U, <i>et al.</i> 1999. <i>Detection and quantification of gene expression.</i> New York:Springer-Verlag. (IHC)</li> <li>Chen H, <i>et al.</i> 2005. <i>J. Immunol.</i> 175:591. (ICFC)</li> <li>Iwamoto S, <i>et al.</i> 2007. <i>J. Immunol.</i> 179:1449. (ICFC) <u>PubMed</u></li> <li>Andersson U, <i>et al.</i> 2000. <i>J. Exp. Med.</i> 192:565. (ICC)</li> <li>Moormann AM, <i>et al.</i> 1999. <i>J. Infect. Dis.</i> 180:1987. (IHC)</li> <li>Zhao XJ, <i>et al.</i> 2003. <i>J. Immunol.</i> 170:2923. (IF)</li> <li>Rieger R, <i>et al.</i> 2009. <i>Cancer Gene Ther.</i> 1:53-64. (FC)</li> </ol>
Description:	TNF- $\alpha$ is secreted by macrophages, monocytes, neutrophils, T cells (principally CD4 <sup>+</sup> ), and NK cells. Many transformed cell lines also secrete TNF- $\alpha$ . Monomeric human TNF- $\alpha$ is a 157 amino acid protein (non-glycosylated) with a reported molecular weight of 17 kD. TNF- $\alpha$ forms multimeric complexes; stable trimers are most common in solution. A 26 kD membrane form of TNF- $\alpha$ has also been described. TNF- $\alpha$ 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:	1. Fitzgerald K, <i>et al.</i> Eds. 2001. The Cytokine FactsBook. Academic Press, San Diego.

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 Beutler B, *et al.* 1989. *Annu. Rev. Immunol.* 7:625.

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