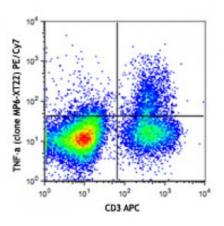
Product Data Sheet

PE/Cy7 anti-mouse TNF-α

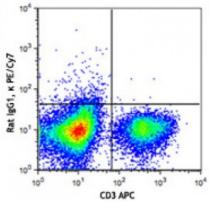
Catalog # / Size:	3131615 / 25 μg 3131620 / 100 μg
Clone:	MP6-XT22
Isotype:	Rat IgG1, к
Immunogen:	<i>E. coli</i> -expressed, recombinant mouse TNF-α
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography, and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.2



PMA + Ionomycin-stimulated C57BL/6 mouse splenocytes (in the presence of monensin) were stained with CD3 APC, fixed, permeabilized and then stained with TNF- α (clone MP6-XT22) PE/Cy7 (top) or rat IgG1, κ PE/Cy7 isotype control (bottom).

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 ≤ 0.25 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.	But here a BELEVE
Application Notes:	ELISA or ELISPOT Detection: The biotinylated MP6-XT22 antibody is useful as a detection antibody for a sandwich ELISA or ELISPOT assay, when used in conjunction with purified 6B8 antibody (Cat. No. 510802/510804) as the capture antibody. Flow Cytometry^{6,11,12}: The fluorochrome-labeled MP6-XT22 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify TNF- α - producing cells within mixed cell populations. Neutralization^{1,5,10,16,17}: The MP6- XT22 antibody can neutralize the bioactivity of natural or recombinant TNF- α . The LEAF TM purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2	



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	µm filtered) is recommended for neutralization of mouse TNF-α bioactivity <i>in vivo</i> and <i>in vitro</i> (Cat. No. 506310). For <i>in vivo</i> studies or highly sensitive assays, we recommend Ultra- LEAF [™] purified antibody (Cat. No. 506332) with a lower endotoxin limit than standard LEAF [™] purified antibodies (Endotoxin <0.01 EU/microg). Additional reported applications (for the relevant formats) include: Western blotting, immunohistochemical staining of paraformaldehyde-fixed, saponin-treated frozen tissue sections ⁷⁻⁹ ⁹ , <i>in vivo</i> detection5, immunofluorescence, and immunocytochemistry. Note: For testing mouse TNF-α in serum, plasma or supernatant, BioLegend's ELISA Max [™] Sets (Cat. No. 430901 to 430906) are specially developed and recommended.
Application References:	 Abrams J, <i>et al.</i> 1992. <i>Immunol. Rev.</i> 127:5. (Neut) Abrams J, <i>et al.</i> 1995. <i>Curr. Prot. Immunol.</i> John Wiley and Sons, New York. Unit 6.20 Mo X, <i>et al.</i> 1995. <i>J. Virol.</i> 69:1288. Sarawar S, <i>et al.</i> 1994. <i>J. Immunol.</i> 153:1246. Via C, <i>et al.</i> 2001. <i>J. Immunol.</i> 167:6821. (Neut) Infante-Duarte C, <i>et al.</i> 2000 <i>J. Immunol.</i> 165:6107. (FC) Jacobs M, <i>et al.</i> 2000. <i>Immunol.</i> 165:7240. (IHC) Marinova-Mutachieva L, <i>et al.</i> 1997. <i>Clin. Exp. Immunol.</i> 107:507. (IHC) Williams RO, <i>et al.</i> 2000. <i>J. Immunol.</i> 165:7240. (IHC) Scanga CA, <i>et al.</i> 1999. <i>Infect. Immun.</i> 67:4531. (Neut) Akilov OE, <i>et al.</i> 2007. <i>J. Leukoc. Biol.</i> 2007;10.1189/jlb.0706439. (FC) Lawson BR, <i>et al.</i> 2005. <i>J. Am. Soc. Nephrol.</i> 16:3273. PubMed Wu S, <i>et al.</i> 2005. <i>Neurosci Lett.</i> 394:158. PubMed Carlson MJ, <i>et al.</i> 2009. <i>Blood</i> 113:1365. PubMed Kersh AE, <i>et al.</i> 2014. <i>J Immunol.</i> 193:4429. PubMed
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 mouse TNF- α is a 156 amino acid protein (N-glycosylated) with a reported molecular weight of 17.5 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 biologic activities including: cytolysis and cytostasis of many tumor cell lines <i>in vitro</i> , hemorrhagic necrosis of tumors <i>in vivo</i> , increased fibroblast proliferation, and enhanced chemotaxis and phagocytosis in neutrophils.

Antigen1. Fitzgerald K, et al. Eds. 2001. The Cytokine FactsBook. Academic Press, San
Diego.References:Diego.2. Beutler B, et al. 1988. Annu. Rev. Biochem. 57:505.2. Beutler B, et al. 1989. Annu. Rev. Biochem. 57:505.

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