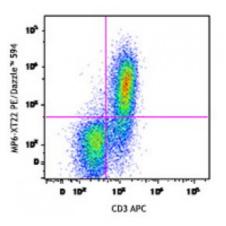
Product Data Sheet

PE/Dazzle[™] 594 anti-mouse TNF-α

Catalog # / Size:	3131730 / 100 μg 3131725 / 25 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/Dazzle [™] 594 under optimal conditions. The solution is free of unconjugated PE/Dazzle [™] 594 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 (6-hour in the presence of monensin) were stained with CD3 APC, fixed, permeabilized, and then stained with TNF-α (clone MP6-XT22) PE/Dazzle[™] 594 (top) or rat IgG1, κ PE/Dazzle[™]

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 ≤ 0.125 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
	* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.
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.

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	Neutralization ^{1,5,10,16,17} : The MP6- XT22 antibody can neutralize the bioactivity of natural or recombinant TNF-α. The LEAF [™] purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 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 , <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>Immunology</i> 100:494. (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
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.
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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