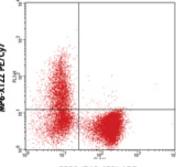


The path to legendary discovery™

Product Data Sheet

PE/Cy7 anti-mouse TNF- α

Catalog # / Size:	506323 / 25 μg 506324 / 100 μg		*21	_
Clone:	MP6-XT22			
Isotype:	Rat IgG1, κ	XT22 PE/Cy7	-	
Immunogen:	<i>E. coli</i> -expressed, recombinant mouse TNF- α			
Reactivity:	Mouse		34	
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.	MP6-XT2	- 10	1.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.			1.4.4
Concentration:	0.2 mg/ml		2	2
Storage:	The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.	-		



B220 (RA3-6B2) APC

PMA/lonomycin-stimulated (6hrs) C57BL/6 mouse splenocytes stained with B220 (RA3-6B2) APC and MP6-XT22 PE/Cy7

Applications:

Applications: ICFC - Quality tested **Recommended Usage:** Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is <0.25 µg per million cells in 100 µl

	volume. It is recommended that the reagent be titrated for optimal performance for each application.
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. To view the intracellular cytokine staining protocol, please visit www.biolegend.com and click on the support section. Neutralization^{1,5,10}: 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 in vivo and in vitro (Cat. No. 506310). For in vivo 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/µg). Additional reported applications (for the relevant formats) include: Western blotting, immunohistochemical staining of paraformaldehyde-fixed, saponin-treated frozen tissue sections⁷⁻⁹, <i>in vivo</i> detection⁵, immunofluorescence, and immunocytochemistry. Note: For testing mouse TNF-α in serum, plasma or supernatant, BioLegend's ELISA MaxTM Sets (Cat. No. 430901 to 430906) are specially developed and recommended.
	Cy3, Cy5, Cy5.5 and Cy7 are subject to proprietary rights of GE Healthcare Bio-Sciences Corp. and Carnegie Mellon University and made and sold under license from GE Healthcare Bio-Sciences Corp. Sale of this product is licensed for research use only.
Application References:	 Abrams J, et al. 1992. Immunol. Rev. 127:5. (Neut) Abrams J, et al. 1995. Curr. Prot. Immunol. John Wiley and Sons, New York. Unit 6.20 Mo X, et al. 1995. J. Virol. 69:1288. Sarawar S, et al. 1994. J. Immunol. 153:1246. Via C, et al. 2001. J. Immunol. 167:6821. (Neut) Infante-Duarte C, et al. 2000 J. Immunol. 165:6107. (FC) Jacobs M, et al. 2000. Immunology 100:494. (IHC) Marinova-Mutachieva L, et al. 1997. Clin. Exp. Immunol. 107:507. (IHC) Williams RO, et al. 2000. J. Immunol. 165:7240. (IHC) Scanga CA, et al. 1999. Infect. Immun. 67:4531. (Neut) Akilov OE, et al. 2007. J. Leukoc. Biol. 2007;10.1189/jlb.0706439. (FC) Lawson BR, et al. 2005. J. Am. Soc. Nephrol. 16:3273. PubMed Wu S, et al. 2005. Neurosci Lett. 394:158. PubMed Carlson MJ, et al. 2009. Blood 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
	For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

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 *in vitro*, hemorrhagic 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.

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

Related Products: Product

PE/Cy7 Rat IgG1, κ Isotype Ctrl Cell Staining Buffer RBC Lysis Buffer (10X)

Clone RTK2071 Application FC, ICFC FC, ICC, ICFC FC, ICFC



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BioLegend Inc., 9727 Pacific Heights Blvd, San Diego, CA 92121 www.biolegend.com Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587