

# TNF alpha Monoclonal Antibody (MP6-XT22), PE-eFluor™ 610, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), PE-eFluor™ 610, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MP6-XT22
Conjugate	PE-eFluor™ 610
Excitation/Emission Max	565/606 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2574666

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	51 Publications

## Product Specific Information

**Description:** The MP6-XT22 antibody reacts with mouse tumor necrosis factor-alpha (TNF alpha), a 17 kDa cytokine produced by monocytes, macrophages, neutrophils, NK cells and CD4(+) T cells. TNF alpha has cytolytic activity against a range of tumor cells and is important in immune regulation. TNF alpha forms dimers and trimers and also exists as a 26 kDa membrane-bound form.

**Applications Reported:** This MP6-XT22 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

**Applications Tested:** This MP6-XT22 antibody has been tested by intracellular staining and flow cytometric analysis of stimulated mouse splenocytes using the Intracellular Fixation & Permeabilization Buffer Set (cat. 88-8824) and protocol. Please refer to Best Protocols: Protocol A: Two step protocol for (cytoplasmic) intracellular proteins located under the Resources Tab online. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

PE-eFluor® 610 can be excited with laser lines from 488-561 nm and emits at 607 nm. We recommend using a 610/20 band pass filter (equivalent to PE-Texas Red®). Please make sure that your instrument is capable of detecting this fluorochrome.

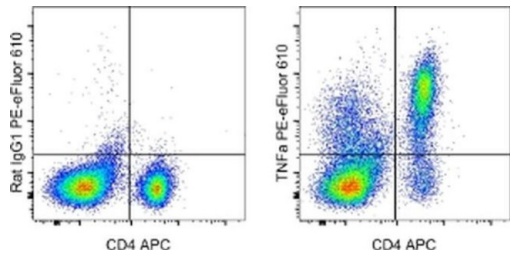
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 607 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For TNF alpha Monoclonal Antibody (MP6-XT22), PE-eFluor™ 610, eBioscience™



**TNF alpha Antibody (61-7321-82) in Flow**  
Mouse splenocytes were stimulated with Cell Stimulation Cocktail (plus protein transport inhibitors) (Product # 00-4975-03). Cells were intracellularly stained with Anti-Mouse CD4 APC (Product # 17-0042-82) and 0.125 µg of Rat IgG1 K Isotype Control PE-eFluor® 610 (Product # 61-4301-82) (left) or 0.125 µg of Anti-Mouse TNF alpha PE-eFluor® 610 (right) using the Intracellular Fixation & Permeabilization Buffer Set (Product # 88-8824-00) and protocol. Cells in the lymphocyte gate were used for analysis.

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51 References

Flow Cytometry (51)

<p>Therapeutic advances in chronic disease</p> <p><b>Prevention of EAE by tolerogenic vaccination with PEGylated antigenic peptides.</b></p> <p>"Published figure using TNF alpha monoclonal antibody (Product # 61-7321-82) in Flow Cytometry"</p> <p>Authors: Pfeil J,Simonetti M,Lauer U,von Thülen B,Durek P,Poulsen C,Pawlowska J,Kröger M,Krähmer R,Leenders F, Hoffmann U,Hamann A</p>	<p>Year</p> <p>2023</p>
<p>International journal of molecular sciences</p> <p><b>Conditional Knockout of Hypoxia-Inducible Factor 1-Alpha in Tumor-Infiltrating Neutrophils Protects against Pancreatic Ductal Adenocarcinoma.</b></p> <p>"Published figure using TNF alpha monoclonal antibody (Product # 61-7321-82) in Flow Cytometry"</p> <p>Authors: Sieow JL,Penny HL,Gun SY,Tan LQ,Duan K,Yeong JPS,Pang A,Lim D,Toh HC,Lim TKH,Engleman E, Rotzschke O,Ng LG,Chen J,Tan SM,Wong SC</p>	<p>Year</p> <p>2023</p>

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