

TNF alpha Monoclonal Antibody (MP6-XT22), Functional Grade, eBioscience™

Product Details

Size	50 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MP6-XT22
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4° C
RRID	AB_494133

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	3 Publications
Flow Cytometry (Flow)	-	56 Publications
Neutralization (Neu)	Assay-Dependent	1 Publication
Functional Assay (FN)	Assay-Dependent	1 Publication

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: The MP6-XT22 antibody has been reported for use in ELISA, neutralization, and immunohistochemistry.

Applications Tested: The Functional Grade Purified MP6-XT22 antibody has been tested by LAL assay to verify low endotoxin level and has been tested for neutralization of TNF alpha bioactivity.

The MP6-XT22 antibody at 1.25 µg/mL has been found to neutralize by 50% the biological effects of 1.0 ng/mL mouse TNF alpha in an assay of TNF alpha induced cytotoxicity of L929 cells. Detailed information and protocols about cytokine bioassays and in vitro cytokine neutralization using antibodies can be found in the BestProtocols® section.

It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Storage and handling: Use in a sterile environment.

Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

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Immunohistochemistry (3)

JCI insight	Year 2020
Fgr contributes to hemorrhage-induced thalamic pain by activating NF-B /ERK1/2 pathways.	
"Published figure using TNF alpha monoclonal antibody (Product # 16-7321-81) in Immunohistochemistry"	
Authors: Huang T,Fu G,Gao J,Zhang Y,Cai W,Wu S,Jia S,Xia S,Bachmann T,Bekker A,Tao YX	
PloS one	Year 2012
Tissue specific deletion of inhibitor of kappa B kinase 2 with OX40-Cre reveals the unanticipated expression from the OX40 locus in skin epidermis.	
"Published figure using TNF alpha monoclonal antibody (Product # 16-7321-81) in Immunofluorescence"	
Authors: Cornish GH,Tung SL,Marshall D,Ley S,Seddon BP	

[View more IHC references on thermofisher.com](#)

Flow Cytometry (56)

Therapeutic advances in chronic disease	Year 2023
Prevention of EAE by tolerogenic vaccination with PEGylated antigenic peptides.	
"Published figure using TNF alpha monoclonal antibody (Product # 16-7321-81) in Flow Cytometry"	
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	
International journal of molecular sciences	Year 2023
Conditional Knockout of Hypoxia-Inducible Factor 1-Alpha in Tumor-Infiltrating Neutrophils Protects against Pancreatic Ductal Adenocarcinoma.	
"Published figure using TNF alpha monoclonal antibody (Product # 16-7321-81) in Flow Cytometry"	
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	

[View more Flow references on thermofisher.com](#)

More applications with references on thermofisher.com

- Neu (1)
- FN (1)

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