

TNF alpha Monoclonal Antibody (MP6-XT3), 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-XT3
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Storage conditions	4° C
RRID	AB_469252

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	-	1 Publication
ELISA (ELISA)	-	1 Publication
Neutralization (Neu)	Assay-Dependent	12 Publications
Functional Assay (FN)	Assay-Dependent	1 Publication

Product Specific Information

Description: The MP6-XT3 monoclonal 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-XT3 antibody has been reported for use in cytokine neutralization.

Applications Tested: The Functional Grade Purified MP6-XT3 antibody has been tested by LAL assay to verify low endotoxin level and has been tested for neutralization of TNF alpha bioactivity.

The MP6-XT3 antibody at 0.60 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.

16 References

Immunohistochemistry (1)

<p>The Journal of clinical investigation</p> <p>Conjugation of a self-antigen to papillomavirus-like particles allows for efficient induction of protective autoantibodies.</p> <p>"Published figure using TNF alpha monoclonal antibody (Product # 16-7322-81) in Immunohistochemistry"</p> <p>Authors: Chackerian B,Lowy DR,Schiller JT</p>	<p>Year</p> <p>2001</p>
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Flow Cytometry (1)

<p>Vaccine</p> <p>Helicobacter hepaticus infection in BALB/c mice abolishes subunit-vaccine-induced protection against M. tuberculosis.</p> <p>"16-7322 was used in Flow cytometry/Cell sorting to show that alteration of the intestinal microbiota can profoundly influence protection induced by a TB subunit vaccine via an IL10-dependent mechanism."</p> <p>Authors: Arnold IC,Hutchings C,Kondova I,Hey A,Powrie F,Beverley P,Tchilian E</p>	<p>Year</p> <p>2015</p> <p>Species</p> <p>Mouse</p>
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ELISA (1)

<p>PloS one</p> <p>Infection of RANKL-primed RAW-D macrophages with Porphyromonas gingivalis promotes osteoclastogenesis in a TNF--independent manner.</p> <p>"16-7322 was used in Neutralization experiments to study the molecular mechanisms by which infection of macrophages influences osteoclast differentiation."</p> <p>Authors: Kukita A,Ichigi Y,Takigawa I,Watanabe T,Kukita T,Miyamoto H</p>	<p>Year</p> <p>2012</p> <p>Species</p> <p>Mouse</p>
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Neutralization (12)

<p>Mucosal immunology</p> <p>TNF promotes mucosal wound repair through enhanced platelet activating factor receptor signaling in the epithelium.</p> <p>"Published figure using TNF alpha monoclonal antibody (Product # 16-7322-81) in Neutralization"</p> <p>Authors: Birkel D,Quiros M,García-Hernández V,Zhou DW,Brazil JC,Hilgarth R,Keeney J,Yulis M,Bruewer M,García AJ, O Leary MN,Parkos CA,Nusrat A</p>	<p>Year</p> <p>2019</p>
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FN (1)

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