

# TNF alpha Monoclonal Antibody (MAb1), Functional Grade, eBioscience™

Product Details	
Size	50 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MAb1
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_469259

Applications	Tested Dilution	Publications
ELISA (ELISA)	Assay-Dependent	-
Neutralization (Neu)	Assay-Dependent	1 Publication
Functional Assay (FN)	Assay-Dependent	4 Publications

## Product Specific Information

**Description:** The MAb1 antibody reacts with human tumor necrosis factor-alpha (TNF-alpha), a 17 kDa cytokine produced by monocytes, macrophages, neutrophils, NK cells and CD4<sup>+</sup> 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 Mab1 antibody has been reported for use in ELISA, ELISPOT, intracellular staining and neutralization.

**Applications Tested:** The MAb1 antibody has been tested for neutralizing TNF alpha binding and biological activity.

**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.

5 References

Neutralization (1)

<p>American journal of transplantation : official journal of the American Society of Transplantation and the American Society of Transplant Surgeons</p> <p><b>Th17 Responses to Collagen Type V, k1-Tubulin, and Vimentin Are Present Early in Human Development and Persist Throughout Life.</b></p> <p>"16-7348 was used in Functional assays to investigate the basis of the T helper 17-dependent autoimmune responses associated with fibro-obliterative forms of chronic rejection following heart or lung transplantation."</p> <p>Authors: Sullivan JA,Jankowska-Gan E,Hegde S,Petrak MA,Agashe VV,Park AC,Brown ME,Kernien JF,Wilkes DS,Kaufman DB,GreenSPAN DS,Burlingham WJ</p>	<p>Year 2017</p> <p>Species Human</p>
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Functional Assay (4)

<p>Mucosal immunology</p> <p><b>TNF promotes mucosal wound repair through enhanced platelet activating factor receptor signaling in the epithelium.</b></p> <p>"16-7348 was used in functional assays to show that TNF promotes intestinal mucosal repair through upregulation of the GPCR platelet activating factor receptor (PAFR) in the intestinal epithelium."</p> <p>Authors: Birkl 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 2019</p> <p>Species Human</p>
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