

For Research Use Only

# NeutraKine® TNF-alpha Mouse McAb

Catalog Number: 69002-1-Ig **2 Publications**



## Basic Information

Catalog Number:	GenBank Accession Number:	Purification Method:
69002-1-Ig	GeneID (NCBI):	Protein G purification
Concentration:	7124	CloneNo.:
Source:	ENSEMBL Gene ID:	11H8A5
Mouse	ENSG00000232810	
Isotype:	Full Name:	
IgG1	tumor necrosis factor (TNF	
Immunogen Catalog Number:	superfamily, member 2)	
HZ-1014		

## Applications

Tested Applications:	Positive Controls:
Neutralization, ELISA	Neutralization : L-929 cells,
Cited Applications:	ELISA : Recombinant protein,
Neutralization	
Species Specificity:	
human, mouse	

## Background Information

TNF, as also known as TNF-alpha, or cachectin, is a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor (TNF) superfamily. It is expressed as a 26 kDa membrane bound protein and is then cleaved by TNF-alpha converting enzyme (TACE) to release the soluble 17 kDa monomer, which forms homotrimers in circulation. It is produced chiefly by activated macrophages, although it can be produced by many other cell types such as CD4+ lymphocytes, NK cells, neutrophils, mast cells, eosinophils, and neurons. It can bind to, and thus functions through its receptors TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. This cytokine is involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. This cytokine has been implicated in a variety of diseases, including autoimmune diseases, INS resistance, and cancer.

This antibody can be used to neutralize the bioactivity of TNF alpha.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yi Luo	39000167	Int J Mol Sci	
Guanzhan Liang	38423357	Cell Mol Gastroenterol Hepatol	Neutralization

## Storage

**Storage:**  
Lyophilized antibodies are stable for 1 year from the date of receipt if stored between (-20°C) and (-80°C). Upon reconstitution we recommend that the solution can be stored at (4°C) for short term or at (-20°C) to (-80°C) for long term. Repeated freeze thaw cycles should be avoided with reconstituted products.

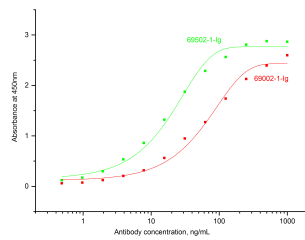
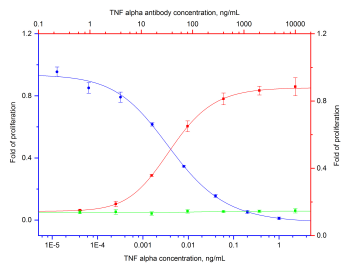
**Storage Buffer:**  
Sterile PBS, pH7.4

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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# Selected Validation Data



Recombinant human TNF alpha (Cat.NO. HZ-1014) inhibits the growth of L-929 cell line in the presence of actinomycin D in a dose dependent manner (blue curve, refer to bottom X-left Y). The activity elicited by recombinant human TNF alpha (0.05 ng/mL HZ-1014) is neutralized by mouse anti-human TNF alpha monoclonal antibody 69002-1-Ig at serial dose (red curve, refer to top X-right Y). The ND50 is typically 10-50 ng/mL. The NeutraControl mouse anti-human TNF alpha



Indirect ELISA was carried out by coating recombinant Human TNF Alpha (Cat.NO. HZ-1014) at 70 ng/well followed by blocking and adding serial diluted TNF Alpha antibody 69002-1-Ig and 69502-1-Ig respectively. Signal was developed with TMB and stopped by H2SO4. Signal strength was measured by absorbance at 450 nm.