

## ARG82989 Mouse TNF alpha ELISA Kit

Package: 96 wells  
Store at: 4°C or -20°C  
(depending on the component)

### Component

Cat. No.	Component Name	Package	Temp
ARG82989-01	Antibody Coated Microplate	8 x 12 strips	4°C
ARG82989-02	Standard (Lyophilized)	3 X 2 ng/vial	4°C
ARG82989-03	Standard / Sample Diluent Buffer	20 ml	4°C
ARG82989-04	100X Antibody Conjugate Concentrate	1 vial	≤ -20°C
ARG82989-05	40X HRP-Streptavidin Solution	1 vial	4°C (protect from light)
ARG82989-06	Antibody Diluent Buffer	35 ml	4°C
ARG82989-07	10X Wash Buffer	50 ml	4°C
ARG82989-08	TMB Substrate	12 ml	4°C (protect from light)
ARG82989-09	Stop Solution	12 ml	4°C
ARG82989-10	Plate sealer	3 adhesive strips	Room temperature

### Summary

Product Description	ARG82989 Mouse TNF alpha ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse TNF alpha in Serum, Plasma, Cell culture supernatants.
Tested Reactivity	Ms
Tested Application	ELISA
Target Name	TNF alpha
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm
Sensitivity	15.6 pg/ml
Sample Type	Serum, Plasma, Cell culture supernatants
Standard Range	31.25 - 2000 pg/ml
Sample Volume	50 µl
Alternate Names	Tumor necrosis factor ligand superfamily member 2; DIF; Cachectin; ICD2; ICD1; N-terminal fragment; TNF-a; TNFA; TNFSF2; TNF-alpha; Tumor necrosis factor; NTF

## Application Instructions

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Assay Time 4.5 hours

## Properties

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Form 96 well

Storage instruction Store components at 4°C or -20°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.

Note For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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Gene Symbol Tnf

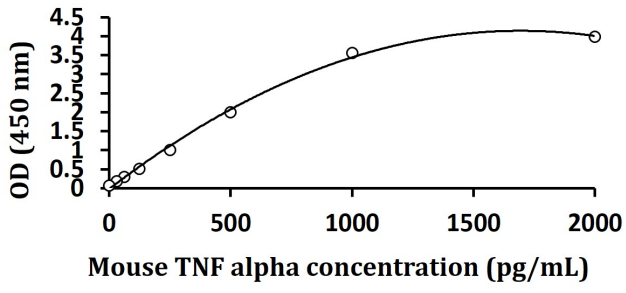
Gene Full Name tumor necrosis factor

Background Tumor Necrosis Factor Alpha (TNF alpha) is a protein secreted by lipopolysaccharide stimulated macrophages, and causes tumor necrosis when injected into tumor bearing mice. TNF alpha is believed to mediate pathogenic shock and tissue injury associated with endotoxemia. TNF alpha exists as a multimer of two, three, or five noncovalently linked units, but shows a single 17 kDa band following SDS PAGE under non reducing conditions. TNF alpha is closely related to the 25 kDa protein Tumor Necrosis Factor beta (lymphotoxin), sharing the same receptors and cellular actions. TNF alpha causes cytolysis or cytostasis of certain transformed cells, being synergistic with interferon gamma in its cytotoxicity. Although it has little effect on many cultured normal human cells, TNF alpha appears to be directly toxic to vascular endothelial cells. Other actions of TNF alpha include stimulating growth of human fibroblasts and other cell lines, activating polymorphonuclear neutrophils and osteoclasts, and induction of interleukin 1, prostaglandin E2 and collagenase production. TNF alpha is currently being evaluated in treatment of certain cancers and AIDS Related Complex.

Highlight Related products:  
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Related news:  
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[Inflammatory Cytokines](#)  
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[LKB1 deficiency in T cells promotes gut tumors](#)  
New ELISA data calculation tool:  
[Simplify the ELISA analysis by GainData](#)

Research Area Cancer kit; Cell Biology and Cellular Response kit; Immune System kit; Metabolism kit; Signaling Transduction kit

PTM The soluble form derives from the membrane form by proteolytic processing. The membrane-bound form is further proteolytically processed by SPPL2A or SPPL2B through regulated intramembrane proteolysis producing TNF intracellular domains (ICD1 and ICD2) released in the cytosol and TNF C-domain 1 and C-domain 2 secreted into the extracellular space.  
The membrane form, but not the soluble form, is phosphorylated on serine residues.  
Dephosphorylation of the membrane form occurs by binding to soluble TNFRSF1A/TNFR1.  
O-glycosylated; glycans contain galactose, N-acetylgalactosamine and N-acetylneuraminic acid.



ARG82989 Mouse TNF alpha ELISA Kit standard curve image

ARG82989 Mouse TNF alpha ELISA Kit results of a typical standard run with optical density reading at 450 nm.