

## Product datasheet for **TA506514S**

### TNF alpha (TNF) Mouse Monoclonal Antibody [Clone ID: OTI1H3]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1H3
Applications:	FC, WB
Recommended Dilution:	WB 1:4000
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human TNF(NP_000585) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	25.5 kDa
Gene Name:	tumor necrosis factor
Database Link:	<a href="#">NP_000585</a> <a href="#">Entrez Gene 7124 Human</a> <a href="#">P01375</a>



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**Background:**

This gene encodes a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor (TNF) superfamily. This cytokine is mainly secreted by macrophages. 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, insulin resistance, and cancer. Knockout studies in mice also suggested the neuroprotective function of this cytokine. [provided by RefSeq, Jul 2008]

**Synonyms:**

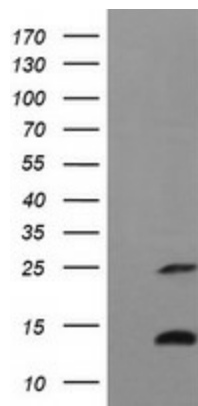
DIF; TNF-alpha; TNFA; TNFSF2

**Protein Families:**

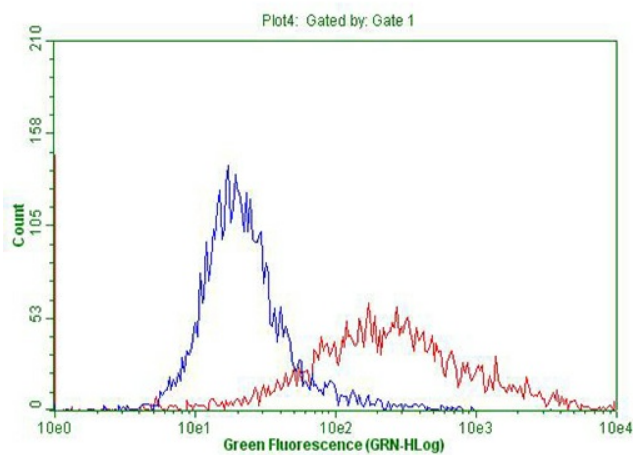
Druggable Genome, Secreted Protein, Transcription Factors, Transmembrane

**Protein Pathways:**

Adipocytokine signaling pathway, Allograft rejection, Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Apoptosis, Asthma, Cytokine-cytokine receptor interaction, Dilated cardiomyopathy, Fc epsilon RI signaling pathway, Graft-versus-host disease, Hematopoietic cell lineage, Hypertrophic cardiomyopathy (HCM), MAPK signaling pathway, Natural killer cell mediated cytotoxicity, NOD-like receptor signaling pathway, RIG-I-like receptor signaling pathway, Systemic lupus erythematosus, T cell receptor signaling pathway, TGF-beta signaling pathway, Toll-like receptor signaling pathway, Type I diabetes mellitus, Type II diabetes mellitus

**Product images:**

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY TNF [RC206983], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TNF. Positive lysates [LY424626] (100ug) and [LC424626] (20ug) can be purchased separately from OriGene.



HEK293T cells transfected with either ([RC206983]) overexpress plasmid (Red) or empty vector control plasmid (blue) were immunostained by anti-TNF antibody ([TA506514]), and then analyzed by flow cytometry (1:100).