

Product datasheet for **CF506513**

TNF alpha (TNF) Mouse Monoclonal Antibody [Clone ID: OTI1C1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1C1
Applications:	FC, IF, WB
Recommended Dilution:	WB 1:4000, IF 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human TNF(NP_000585) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
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:	NP_000585 Entrez Gene 7124 Human P01375



[View online »](#)

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:

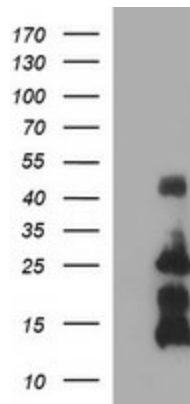
DIF; TNF-alpha; TNFA; TNFSF2

Protein Families:

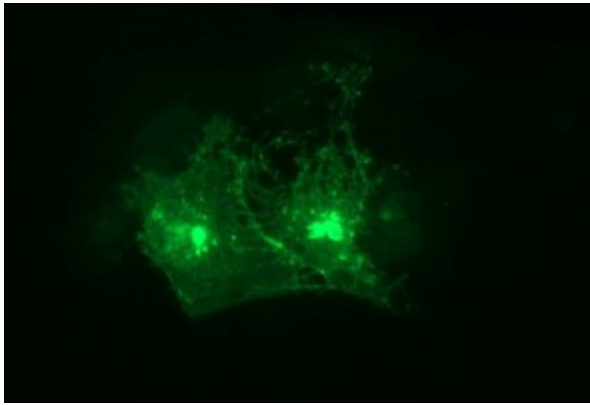
Druggable Genome, Secreted Protein, Transcription Factors, Transmembrane

Protein Pathways:

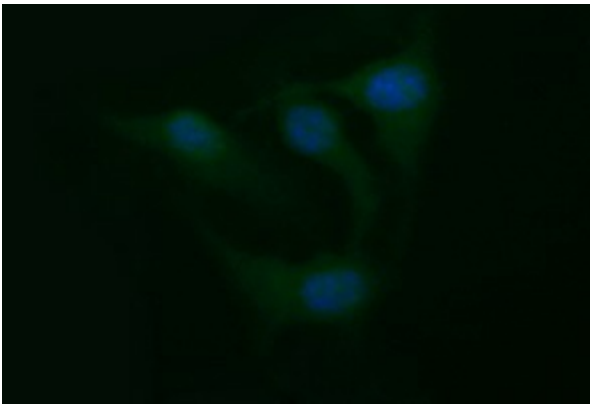
Adipocytokine signaling pathway, Allograft rejection, Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Apoptosis, Asthma, Cytokine-cytokine receptor interaction, Dilated cardiomyopathy, Fc epsilon RI signaling pathway, Graft-versus-host disease, Hematopoietic cell lineage, Hypertrophic cardiomyopathy (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:

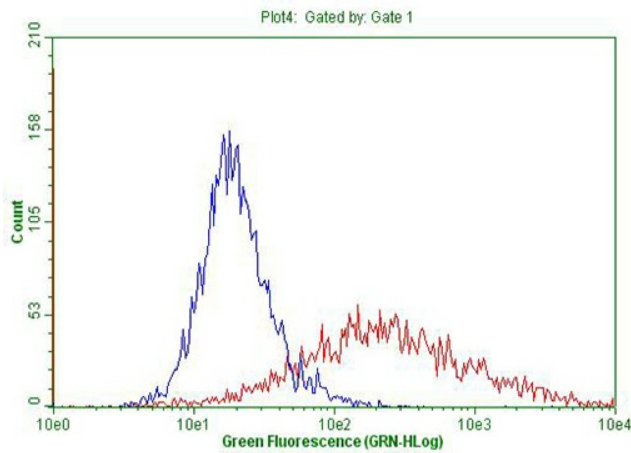
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TNF (Cat# [RC206983], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TNF (Cat# [TA506513]). Positive lysates [LY424626] (100ug) and [LC424626] (20ug) can be purchased separately from OriGene.



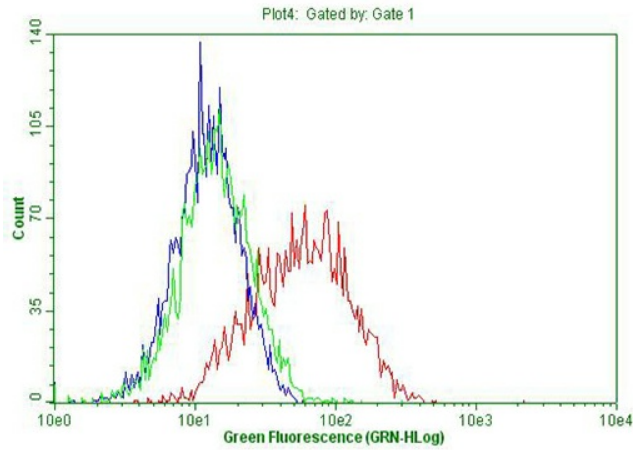
Anti-TNF mouse monoclonal antibody ([TA506513]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY TNF ([RC206983]).



Immunofluorescent staining of HeLa cells using anti-TNF mouse monoclonal antibody ([TA506513]).



HEK293T cells transfected with either ([RC206983]) overexpress plasmid (Red) or empty vector control plasmid (blue) were immunostained by anti-TNF antibody ([TA506513]), and then analyzed by flow cytometry (1:100).



Flow cytometric Analysis of Raw264.7 cells, using anti-TNF antibody ([TA506513]), (Red), compared to isotype control, (green), and negative control (PBS), (Blue) (1:100)