

## Product datasheet for **AM31768PU-N**

### TNF alpha (TNF) (1-234) Mouse Monoclonal Antibody [Clone ID: M1-C4]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	M1-C4
Applications:	ELISA, IHC, WB
Recommended Dilution:	<b>ELISA.</b> <b>Immunohistochemistry on Paraffin Sections:</b> 5 µg/ml. <b>Western Blot:</b> 1/500 - 1/1000.
Reactivity:	Human, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	TNF (AAH28148, 1 a.a. ~ 234 a.a) full length recombinant protein with GST tag
Specificity:	This antibody reacts to Human TNF at aa 1-234.
Formulation:	PBS, pH 7.4 State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	tumor necrosis factor
Database Link:	<a href="#">Entrez Gene 24835 Rat</a> <a href="#">Entrez Gene 7124 Human</a> <a href="#">P01375</a>



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**Background:**

Tumor Necrosis Factor (TNF) is a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor (TNF) superfamily. TNF is mainly secreted by macrophages. It can bind to, and thus functions through its receptors TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. TNF is involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. TNF 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.

**Synonyms:**

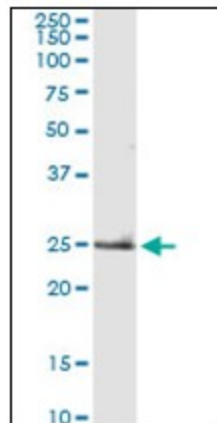
TNF, TNF-a, TNFA, TNFSF2, Cachectin

**Protein Families:**

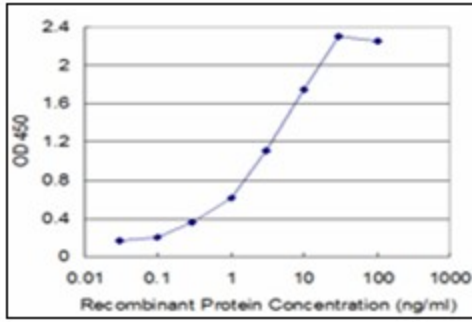
Druggable Genome, Secreted Protein, Transcription Factors, Transmembrane

**Protein Pathways:**

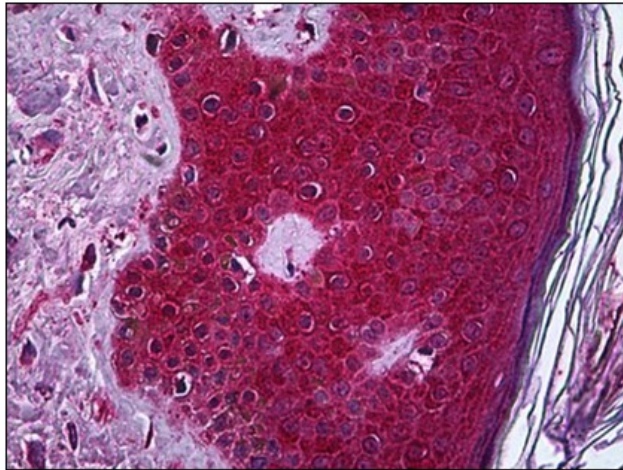
Adipocytokine signaling pathway, Allograft rejection, Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Apoptosis, Asthma, Cytokine-cytokine receptor interaction, Dilated cardiomyopathy, Fc epsilon RI signaling pathway, Graft-versus-host disease, Hematopoietic cell lineage, Hypertrophic cardiomyopathy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

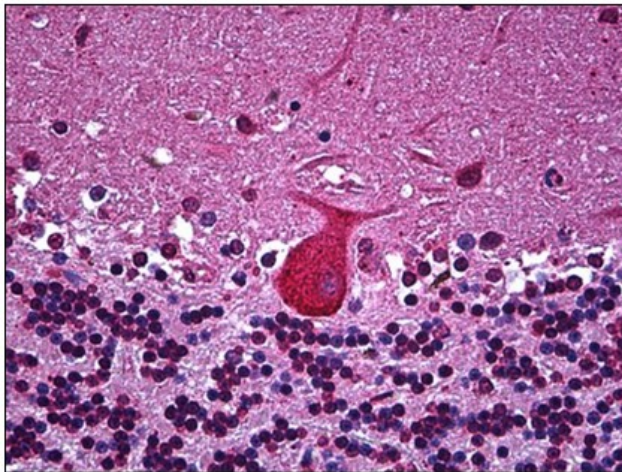
TNF monoclonal antibody,. Western Blot analysis of TNF expression in rat liver.



Detection limit for recombinant GST tagged TNF is approximately 0.3ng/ml as a capture antibody.



Human Skin: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Brain, Cerebellum: Formalin-Fixed, Paraffin-Embedded (FFPE)