

### TNF α Polyclonal Antibody

Catalog # AP63607

# **Specification**

# TNF α Polyclonal Antibody - Product Information

Application WB, IHC-P
Primary Accession P01375
Reactivity Human, Ra

Reactivity Human, Rat, Mouse Rabbit

Clonality Rappit
Polyclonal

# TNF α Polyclonal Antibody - Additional Information

#### **Gene ID 7124**

#### **Other Names**

Tumor necrosis factor (Cachectin) (TNF-alpha) (Tumor necrosis factor ligand superfamily member 2) (TNF-a) [Cleaved into: Tumor necrosis factor, membrane form (N-terminal fragment) (NTF); Intracellular domain 1 (ICD1); Intracellular domain 2 (ICD2); C-domain 1; C-domain 2; Tumor necrosis factor, soluble form]

### **Dilution**

WB~~WB: 1:500-1:2000 IHC: 1:50-1:200

IHC-P~~N/A

#### **Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

### **Storage Conditions**

-20°C

### TNF α Polyclonal Antibody - Protein Information

### Name TNF

Synonyms TNFA, TNFSF2

#### **Function**

Cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFBR. It is mainly secreted by macrophages and can induce cell death of certain tumor cell lines. It is potent pyrogen causing fever by direct action or by stimulation of interleukin-1 secretion and is implicated in the induction of cachexia, Under certain conditions it can stimulate cell proliferation and induce cell differentiation. Impairs regulatory T- cells (Treg) function in individuals with rheumatoid arthritis via FOXP3 dephosphorylation. Up-regulates the expression of protein phosphatase 1 (PP1), which dephosphorylates the key 'Ser-418' residue of FOXP3, thereby inactivating FOXP3 and rendering Treg cells functionally defective (PubMed:<a href="http://www.uniprot.org/citations/23396208" target="\_blank">23396208</a>). Key mediator of cell death in the anticancer action of BCG-stimulated neutrophils in combination with DIABLO/SMAC mimetic in the RT4v6 bladder



cancer cell line (PubMed:<a href="http://www.uniprot.org/citations/16829952" target="\_blank">16829952</a>, PubMed:<a href="http://www.uniprot.org/citations/22517918" target="\_blank">22517918</a>, PubMed:<a href="http://www.uniprot.org/citations/23396208" target="\_blank">23396208</a>). Induces insulin resistance in adipocytes via inhibition of insulin-induced IRS1 tyrosine phosphorylation and insulin-induced glucose uptake. Induces GKAP42 protein degradation in adipocytes which is partially responsible for TNF-induced insulin resistance (By similarity). Plays a role in angiogenesis by inducing VEGF production synergistically with IL1B and IL6 (PubMed:<a href="http://www.uniprot.org/citations/12794819" target="\_blank">12794819</a>). Promotes osteoclastogenesis and therefore mediates bone resorption (By similarity).

### **Cellular Location**

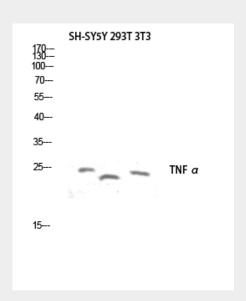
Cell membrane; Single-pass type II membrane protein [Tumor necrosis factor, soluble form]: Secreted [C-domain 2]: Secreted.

## TNF α Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- <u>Immunofluorescence</u>
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

# TNF α Polyclonal Antibody - Images

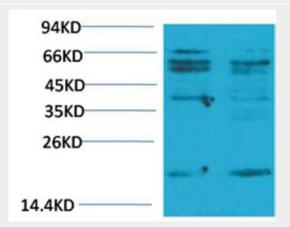


Western blot analysis of SH-SY5Y 293T 3T3 lysis using TNF  $\alpha$  antibody. Antibody was diluted at 1:1000. Secondary antibody was diluted at 1:20000

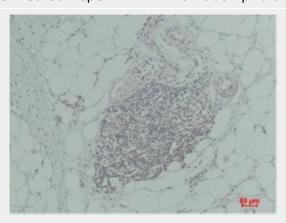




Western blot analysis of Recombinant Human TNF a Protein with TNF  $\alpha$  Rabbit pAb diluted at 1:2,000  $\,$ 



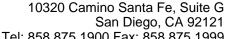
Western blot analysis of LPS Treated HepG2 with TNF  $\alpha$  Rabbit pAb diluted at 1:2,000



Immunohistochemical analysis of paraffin-embedded Human Breast Carcinoma using TNF aRabbit pAb diluted at 1:200.

# TNF α Polyclonal Antibody - Background

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