

**TNF-alpha Antibody**  
**Purified Rabbit Polyclonal Antibody**  
**Catalog # ABV11495****Specification**

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**TNF-alpha Antibody - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">P16599</a>
Other Accession	<a href="#">CAA47146</a>
Reactivity	<b>Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Calculated MW	<b>25806</b>

**TNF-alpha Antibody - Additional Information****Gene ID** 24835**Other Names**

Tumor necrosis factor, Cachectin, TNF-alpha, Tumor necrosis factor ligand superfamily member 2, TNF-a, 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, Tnf, Tnfa, Tnfsf2

**Target/Specificity**

TNF-a

**Formulation**

100 µg (200 µg/ml) protein purified monoclonal antibody in PBS containing 1 mg/ml BSA and 1.5 mM sodium azide and 50% glycerol.

**Handling**

The antibody solution should be gently mixed before use.

**Background Descriptions****Precautions**

TNF-alpha Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**TNF-alpha Antibody - Protein Information****Name** Tnf**Synonyms** Tnfa, Tnfsf2

**Function**

Cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. 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 (By similarity). 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 (By similarity). Promotes osteoclastogenesis and therefore mediates bone resorption (By similarity).

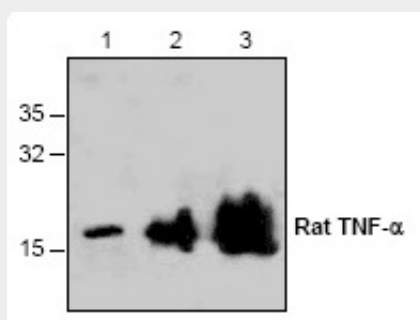
**Cellular Location**

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

**TNF-alpha Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**TNF-alpha Antibody - Images**

Western blot analysis using recombinant Rat TNF- $\alpha$ . Lane1: 20ng; Lane2: 50ng; Lane3: 250ng

**TNF-alpha Antibody - Background**

Tumor Necrosis Factor-alpha (TNF- $\alpha$ ) is a potent lymphoid factor that exerts cytotoxic effects on a wide range of tumor cells and certain other target cells. Rat TNF- $\alpha$  is a 17 kDa protein containing 157 amino acid residues.