

### **TNFalpha Antibody Blocking peptide**

Catalog # BP5001a

### **Specification**

## **TNFalpha Antibody Blocking peptide - Product Information**

Primary Accession

P01375

## **TNFalpha Antibody Blocking peptide - Additional Information**

**Gene ID 7124** 

### **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

#### **Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

## **Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

# **TNFalpha Antibody Blocking peptide - Protein Information**

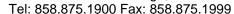
**Name TNF** 

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/2517918" target="\_blank">22517918</a>(a>, PubMed:<a href="http://www.uniprot.org/citations/16829952" 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.

## **TNFalpha Antibody Blocking peptide - Protocols**

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

• Blocking Peptides

**TNFalpha Antibody Blocking peptide - Images**