

# TNF- $\alpha$ protein

CatalogNo: YD0113

## Key Features

### Reactivity

- Human

## Storage

**Storage\*** -20°C/6 month, -80°C for long storage

**Formulation** Liquid in PBS

## Recommended Dilution Ratios

## Basic Information

**Source** E.coli

**Purification** E.coli

**Purity** SDS-PAGE >90%

## Immunogen Information

**Sequence** Amino acid: 57-255, with his-MBP tag.

## Target Information

**Gene name** TNF TNFA TNFSF2

**Protein Name** TNF  $\alpha$  protein

Organism	Gene ID	UniProt ID
Human	<a href="#">7124;</a>	<a href="#">P01375;</a>
Mouse		<a href="#">P06804;</a>

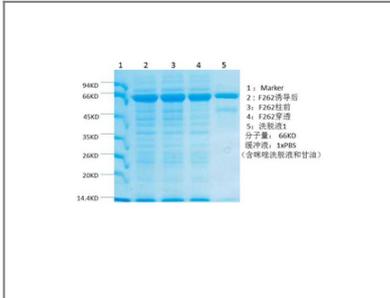
**Cellular  
Localization**

Cell membrane ; Single-pass type II membrane protein .; [Tumor necrosis factor, membrane form]: Membrane; Single-pass type II membrane protein.; [Tumor necrosis factor, soluble form]: Secreted .; [C-domain 1]: Secreted.; [C-domain 2]: Secreted.

**Function**

protein import into nucleus, translocation, negative regulation of transcription from RNA polymerase II promoter,MAPKKK cascade, activation of MAPK activity, cell activation, regulation of cytokine production, negative regulation of cytokine production, positive regulation of cytokine production, regulation of protein amino acid phosphorylation,positive regulation of protein amino acid phosphorylation, regulation of L-glutamate transport, negative regulation of L-glutamate transport, inflammatory response to antigenic stimulus, chronic inflammatory response to antigenic stimulus, immune system development, leukocyte differentiation, chronic inflammatory response, myeloid leukocyte differentiation, regulation of immunoglobulin production, regulation of immune effector process, regulation of production of molecular mediator of immune response, regulation of cytokine production during immune response,regulation of cytokine secretion during immune response, negative regulation of cytokine secretion during immune response, regulation of myeloid leukocyte differentiation, regulation of peptide secretion, monosaccharide metabolic process, glucose metabolic process, regulation of transcription, DNA-dependent, regulation of transcription from RNA polymerase II promoter, regulation of translation, regulation of translational initiation, regulation of translational initiation by iron, protein amino acid phosphorylation, protein targeting, protein import into nucleus, phosphorus metabolic process, phosphate metabolic process, intracellular protein transport, nucleocytoplasmic transport,apoptosis, anti-apoptosis, induction of apoptosis, activation of caspase activity, transformed cell apoptosis, cell motion, defense response, inflammatory response, immune response, humoral immune response, response to osmotic stress, regulation of mitosis, cell adhesion, leukocyte adhesion, intracellular signaling cascade, protein kinase cascade,JNK cascade, regulation of mitotic cell cycle, protein localization, cell death, positive regulation of cell proliferation,negative regulation of cell proliferation, induction of apoptosis by extracellular signals, response to wounding,response to mechanical stimulus, response to virus, response to bacterium, response to abiotic stimulus, response to salt stress, response to endogenous stimulus, response to hormone stimulus, negative regulation of biosynthetic process, positive regulation of biosynthetic process, regulation of catabolic process, negative regulation of catabolic process, positive regulation of catabolic process, positive regulation of signal transduction, response to organic substance, regulation of gastrulation, positive regulation of macromolecule biosynthetic process, negative regulation of macromolecule biosynthetic process, positive regulation of phosphorus metabolic process, regulation of cell cycle process, positive regulation of macromolecule metabolic process, negative regulation of macromolecule metabolic process, posttranscriptional regulation of gene expression, regulation of protein kinase cascade, positive regulation of gene expression, negative regulation of gene expression, positive regulation of organelle organization, positive regulation of cell communication, positive regulation of protein kinase cascade, regulation of glucose transport,negative regulation of glucose transport, lipid localization, positive regulation of steroid biosynthetic process,regulation of necrotic cell death, positive regulation of necrotic cell death, regulation of cell death, positive regulation of cell death, positive regulation of peptidase activity, programmed cell death, induction of programmed cell death,protein transport, death, phosphorylation, cell-cell adhesion, cell migration, negative regulation of transcription,protein import, regulation of lipid metabolic process, regulation of steroid metabolic process, regulation of phosphate metabolic process, cytokine-mediated signaling pathway, hexose metabolic process, calcium-mediated signaling, lipid storage, second-messenger-mediated signaling, regulation of cell-cell adhesion, positive regulation of cell-cell adhesion, biological adhesion, hemopoiesis, myeloid cell differentiation, regulation of cell adhesion, regulation of proteolysis, osteoclast differentiation, regulation of vitamin metabolic process, sequestering of triglyceride, stress-activated protein kinase signaling pathway, negative regulation of cellular biosynthetic process, positive regulation of cellular biosynthetic process, regulation of cellular catabolic process, positive regulation of cellular catabolic process,regulation of protein modification process, positive regulation of protein modification process, regulation of neurological system process, positive regulation of neurological system process, response to corticosteroid stimulus,regulation of cellular protein metabolic process, positive regulation of cellular protein metabolic process, regulation of intracellular transport, positive regulation of intracellular transport, regulation of gene-specific transcription, regulation of chemokine production, regulation of interleukin-6 production, negative regulation of interleukin-6 production,positive regulation of chemokine production, positive regulation of interleukin-6 production, regulation of monooxygenase activity, positive regulation of monooxygenase activity, receptor biosynthetic process, regulation of protein localization, regulation of organic acid transport, negative regulation of organic acid transport, regulation of organelle organization, regulation of intracellular protein transport, tumor necrosis factor-mediated signaling pathway,protein localization in organelle, cellular response to stress, positive regulation of kinase activity, regulation of heterotypic cell-cell adhesion, positive regulation of heterotypic cell-cell adhesion, protein localization in nucleus,cellular protein localization, regulation of cytokine biosynthetic process, positive regulation of cytokine biosynthetic process, regulation of cell proliferation, regulation of protein catabolic process, regulation of protein import into nucleus, positive regulation of protein import into nucleus, regulation of phosphorylation, positive regulation of phosphorylation, regulation of NF-kappaB import into nucleus, positive regulation of NF-kappaB import into nucleus,regulation of hair cycle, defense response to bacterium, regulation of apoptosis, regulation of transcription factor import into nucleus, positive regulation of transcription factor import into nucleus, positive regulation of apoptosis,negative regulation of apoptosis, regulation of programmed cell death, positive regulation of programmed cell death,negative regulation of programmed cell death, positive regulation of catalytic activity, receptor metabolic process,regulation of I-kappaB kinase/NF-kappaB cascade, positive regulation of I-kappaB kinase/NF-kappaB cascade, positive regulation of gene-specific transcription, regulation of ion transport, negative regulation of ion transport, negative regulation of caspase activity, regulation of caspase activity, positive regulation of DNA binding, regulation of MAP kinase activity, positive regulation of MAP kinase activity, regulation of MAPKKK cascade, positive regulation of MAPKKK cascade, regulation of neuron apoptosis, positive regulation of neuron apoptosis, regulation of kinase activity,regulation of system process, regulation of anion transport, positive regulation of molecular function, regulation of viral genome replication, negative regulation of viral genome replication, regulation of chemokine biosynthetic process,positive regulation of chemokine biosynthetic process, cellular extravasation, establishment of protein localization,regulation of nitric oxide biosynthetic process, positive regulation of nitric oxide biosynthetic process, regulation of transcription, regulation of myeloid cell differentiation, regulation of osteoclast differentiation, regulation of epidermis development, positive regulation of epidermis development, positive regulation of translation, positive regulation of protein catabolic process, positive regulation of cell adhesion, positive regulation of cell cycle, negative regulation of lipid metabolic process, positive regulation of lipid metabolic process, positive regulation of mitosis, regulation of protein kinase activity, positive regulation of protein kinase activity, positive regulation of proteolysis, negative regulation of transcription, DNA-dependent, positive regulation of transcription, DNA-dependent, negative regulation of nucleobase, nucleoside, nucleotide and nucleic acid metabolic process, positive regulation of nucleobase, nucleoside, nucleotide and nucleic acid metabolic process, positive regulation of phosphate metabolic process, positive regulation of protein metabolic process, positive regulation of transcription, positive regulation of transcription from RNA polymerase II promoter, positive regulation of translational initiation, positive regulation of translational initiation by iron, regulation of embryonic development, positive regulation of vitamin metabolic process, regulation of glucose import, negative regulation of glucose import, regulation of JNK cascade, positive regulation of JNK cascade, regulation of nucleocytoplasmic transport, positive regulation of nucleocytoplasmic transport, regulation of hormone secretion,positive regulation of lipid biosynthetic process, regulation of lipid biosynthetic process, intracellular transport,negative regulation of viral reproduction, hemopoietic or lymphoid organ development, response to steroid hormone stimulus, positive regulation of response to stimulus, regulation of smooth muscle cell proliferation, positive regulation of smooth muscle cell proliferation, cell motility, regulation of cytokine secretion, regulation of protein secretion,negative regulation of protein secretion, negative regulation of cytokine secretion, positive regulation of protein secretion, positive regulation of cytokine secretion, regulation of viral reproduction, regulation of insulin secretion,regulation of synaptic transmission, positive regulation of synaptic transmission, regulation of steroid biosynthetic process, leukocyte migration, leukocyte tethering or rolling, regulation of lipid catabolic process, negative regulation of lipid catabolic process, regulation of immunoglobulin secretion, regulation of membrane protein ectodomain proteolysis, positive regulation of membrane protein ectodomain proteolysis, regulation of secretion, positive regulation of secretion, negative regulation of secretion, positive regulation of transport, negative regulation of transport, regulation of transcription factor activity, positive regulation of transcription factor activity, positive regulation of NF-kappaB transcription factor activity, positive regulation of developmental process, regulation of binding, positive regulation of binding, regulation of DNA binding, positive regulation of cellular component organization, nuclear transport, nuclear import, negative regulation of nitrogen compound metabolic process, positive regulation of nitrogen compound metabolic process, regulation of phosphorus metabolic process, positive regulation of protein transport, regulation of protein transport, negative regulation of protein transport, maintenance of location,positive regulation of multicellular organismal process, negative regulation of multicellular organismal process, positive regulation of protein metabolic process, regulation of RNA metabolic process, negative regulation of RNA metabolic process, positive regulation of RNA metabolic process, regulation of hydrolase activity, regulation of transferase activity, regulation of oxidoreductase activity, positive regulation of hydrolase activity, positive regulation of transferase activity, positive regulation of oxidoreductase activity, response to glucocorticoid stimulus, localization of cell, regulation of cell cycle, regulation of nuclear division, positive regulation of nuclear division, regulation of hair follicle development, positive regulation of hair follicle development, regulation of amine transport, negative regulation of amine transport, regulation of amino acid transport, negative regulation of amino acid transport, regulation of transmission of nerve impulse, positive regulation of transmission of nerve impulse, regulation of peptidase activity,regulation of endopeptidase activity, regulation of cellular localization, regulation of necroptosis, positive regulation of necroptosis, negative regulation of cell death, induction of necroptosis, induction of necroptosis by extracellular signals, regulation of vitamin D biosynthetic process, positive regulation of vitamin D biosynthetic process, regulation of calcidiol 1-monoxygenase activity, positive regulation of calcidiol 1-monoxygenase activity, regulation of establishment of protein localization, necrotic cell death, regulation of stress-activated protein kinase signaling pathway, positive regulation of stress-activated protein kinase signaling pathway, regulation of cell-cell adhesion involved in gastrulation, cellular macromolecule localization, regulation of cellular response to stress,

## Validation Data



## Contact information

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