TNFalpha Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TNFalpha, Polyclonal Antibody
Full Product Name	TNFalpha Rabbit pAb
Product Gene Name	anti-TNFalpha antibody
Product Synonym Names	Tnfa; RATTNF; TNF-alpha
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Other (Wide Range)
Form/Format	PBS with 0.05% proclin300,50% glycerol,pH7.3.
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles. Ship: Ice Pack
Molecular Weight	25,806 Da
3D Structure	ModBase 3D Structure for P16599
Immunogen	Recombinant protein of rat TNFalpha.
Product Categories/Family for anti-TNFalpha antibody	Polyclonal Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TNFalpha antibody	Western Blot (WB)
Application Notes for anti-TNFalpha antibody	WB: 1:500-1:1000
Related Product Information for anti-TNFalpha antibody	Enables tumor necrosis factor receptor binding activity. Involved in several processes, including positive regulation of cell communication; positive regulation of macromolecule metabolic process; and positive regulation of neuron death. Located in several cellular components, including external side of plasma membrane; extracellular space; and neuronal cell body. Used to study several diseases, including cerebrovascular disease (multiple); liver disease (multiple); peptic esophagitis; perinatal necrotizing enterocolitis; and periventricular leukomalacia. Biomarker of several diseases, including brain disease (multiple); congestive heart failure (multiple); inflammatory bowel disease (multiple); lung disease (multiple); and non-alcoholic fatty liver disease (multiple). Human ortholog(s) of this gene implicated in several diseases, including artery disease (multiple); autoimmune disease (multiple); eye disease (multiple); lung disease (multiple); and skin disease (multiple). Orthologous to human TNF (tumor necrosis factor).
Other Notes	Small volumes of anti-TNFalpha antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TNFalpha purchase	MBS9146431 is an antibody targeting TNFalpha. Also known as TNFalpha Rabbit pAb. Reactive in Other (Wide Range). Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TNFalpha. It may not necessarily be applicable to this product.

NCBI GI #	6981662
NCBI GeneID	24835
NCBI Accession #	NP_036807.1
UniProt Primary Accession #	P16599
UniProt Secondary Accession #	Q6EE11; Q9JI26; Q9JI27
UniProt Related Accession #	P16599
GenBank Nucleotide #	NM_012675.3
NCBI Official Full Name	tumor necrosis factor
NCBI Official Synonym Full Names	tumor necrosis factor
NCBI Official Symbol	Tnf
NCBI Official Synonym Symbols	Tnfa; RATTNF; TNF-alpha
UniProt Protein Name	Tumor necrosis factor
UniProt Synonym Protein Names	Cachectin; TNF-alpha; Tumor necrosis factor ligand superfamily member 2; TNF-a
UniProt Gene Name	Tnf
UniProt Synonym Gene Names	Tnfa; Tnfsf2; TNF-a; NTF; ICD1; ICD2
UniProt Entry Name	TNFA_RAT
NCBI Protein Information	tumor necrosis factor

UniProt Comments for TNFalpha	TNF-a: 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. Homotrimer. Interacts with SPPL2B. Belongs to the tumor necrosis factor family. Protein type: Apoptosis; Cytokine; Membrane protein, integral; Motility/polarity/chemotaxis Cellular Component: cell surface; external side of plasma membrane; extracellular space; integral to membrane; integral to plasma membrane; intracellular; lipid raft; phagocytic cup; plasma membrane; recycling endosome Molecular Function: cytokine activity; identical protein binding; protease binding; tumor necrosis factor receptor binding Biological Process: activation of MAPK activity; activation of MAPKKK activity; activation of NF-kappaB transcription factor; acute inflammatory response; apoptosis; calcium-mediated signaling; caspase activation; cell activation; cellular extravasation; chronic inflammatory response to antigenic stimulus; circadian rhythm; cortical actin cytoskeleton organization and biogenesis; defense response; defense response to bacterium; defense response to Gram-positive bacterium; detection of mechanical stimulus involved in sensory perception of pain; DNA damage response, signal transduction resulting in induction of apoptosis; embryonic gut development; extracellular matrix organization and biogenesis; glucose metabolic process; humoral immune response; induction of apoptosis via death domain receptors; inflammatory response; JNK cascade; leukocyte migration; leukocyte tethering or rolling; lipopolysaccharide-mediated signaling pathway; MAPKKK cascade; multicellular organismal development; negative regulation of cell proliferation; negative regulation of cytokine secretion during immune response; negative regulation of endothelial cell proliferation; negative regulation of glucose import; negative regulation of interleukin-6 production; negative regulation of L-glutamate transport; negative regulation of lipid catabolic process; negative regulation of mitotic cell cycle; negative regulation of myelination; negative regulation of myoblast differentiation; negative regulation of osteoblast differentiation; negative regulation of protein complex disassembly; negative regulation of transcription from RNA polymerase II promoter; negative regulation of transcription, DNA-dependent; negative regulation of viral genome replication; organ morphogenesis; osteoclast differentiation; positive regulation of action potential; positive regulation of apoptosis; positive regulation of caspase activity; positive regulation of cell adhesion; positive regulation of chemokine biosynthetic process; positive regulation of chemokine production; positive regulation of chronic inflammatory response to antigenic stimulus; positive regulation of cytokine production; positive regulation of cytokine secretion; positive regulation of fever; positive regulation of hair follicle development; positive regulation of heterotypic cell-cell adhesion; positive regulation of humoral immune response mediated by circulating immunoglobulin; positive regulation of I-kappaB kinase/NF-kappaB cascade; positive regulation of inflammatory response; positive regulation of interferon-gamma production; positive regulation of interleukin-18 production; positive regulation of interleukin-6 production; positive regulation of interleukin-8 biosynthetic process; positive regulation of interleukin-8 production; positive regulation of JNK activity; positive regulation of JNK cascade; positive regulation of MAP kinase activity; positive regulation of membrane protein ectodomain proteolysis; positive regulation of mitosis; positive regulation of neuron apoptosis; positive regulation of NF-kappaB import into nucleus; positive regulation of NFAT protein import into nucleus; positive regulation of nitric oxide biosynthetic process; positive regulation of osteoclast differentiation; positive regulation of peptidyl-serine phosphorylation; positive regulation of phagocytosis; positive regulation of programmed cell death; positive regulation of protein amino acid phosphorylation; positive regulation of protein complex assembly; positive regulation of protein complex disassembly; positive regulation of protein kinase activity; positive regulation of protein kinase B signaling cascade; positive regulation of protein transport; positive regulation of smooth muscle cell proliferation; positive regulation of synaptic transmission; positive regulation of transcription factor activity; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription, DNA-dependent; positive regulation of translational initiation by iron; protein import into nucleus, translocation; protein kinase B signaling cascade; receptor biosynthetic process; regulation of cell proliferation; regulation of I-kappaB kinase/NF-kappaB cascade; regulation of immunoglobulin secretion; regulation of insulin secretion; regulation of osteoclast differentiation; regulation of protein amino acid phosphorylation; regulation of protein secretion; response to activity; response to drug; response to glucocorticoid stimulus; response to hypoxia; response to lipopolysaccharide; response to mechanical stimulus; response to organic substance; response to radiation; response to virus; sequestering of triacylglycerol; signal transduction; skeletal muscle contraction; toll-like receptor 3 signaling pathway; tumor necrosis factor-mediated signaling pathway
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