

## Rabbit polyclonal antibody to human Tumor necrosis factor alpha (201-233): Affinity purified

<b>Catalogue No.:</b>	R-1587-100
<b>Description:</b>	THIS PRODUCT HAS BEEN SUPERCEDED. PLEASE REFER TO THE "REPLACED BY" FIELD BELOW TO LOCATE THE CURRENT BIOSENSIS PRODUCT TO MEET YOUR RESEARCH NEEDS. Tumor necrosis factor alpha (TNF-alpha) is a cytokine that belongs to the tumor necrosis factor (TNF) superfamily. TNF-alpha is mainly secreted by macrophages. TNF-alpha is involved in the regulation of many processes such as cell proliferation, differentiation and apoptosis and has been implicated in a variety of diseases including cancer. In microglia, TNF-alpha has been found to induce neurotoxicity via glutamate release. TNF-alpha is expressed as a single-pass type II membrane protein. A soluble, secreted form is derived from the membrane form by proteolytic processing.
<b>Unit size:</b>	100 µg
<b>Antigen Location:</b>	A synthetic peptide (QLEKGDRLSA EINRPDYLDLDF AESGQVYFGI IAL ) corresponding to a region (201-233) from human Tumor necrosis factor alpha.
<b>Other Names:</b>	TNF-alpha; Tumor necrosis factor ligand superfamily member 2; TNF-a; Cachectin; TNF; TNFA; TNFSF2;
<b>Accession:</b>	P01375 TNFA_HUMAN;
<b>Produced in:</b>	Rabbit
<b>Purity:</b>	Affinity purified on antigen column
<b>Applications:</b>	Immunohistochemistry (IHC) and Western Blotting (WB). A concentration of 1µg/ml is recommended for WB. Human TNF-alpha (precursor) has a predicted length of 233 residues . A concentration of 1 µg/ml is recommended to detect the protein in formalin fixed and paraffin embedded tissues. Antigen retrieval is recommended Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
<b>Specificity:</b>	The specificity of this antibody has been confirmed by WB and IHC against the antigen
<b>Cross-reactivity:</b>	Human; mouse; rat;
<b>Form:</b>	Lyophilized with 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg Na <sub>3</sub> added as preservative
<b>Reconstitution:</b>	Reconstitute in 100 µl of sterile distilled water to achieve an antibody concentration of 1 mg/ml. Centrifuge to remove any insoluble material.
<b>Storage:</b>	At least 12 months after purchase at 2 - 4°C (lyophilized formulations). After reconstitution, aliquot and store at -20°C for a higher stability. Avoid freeze-thaw cycles
<b>Expiry Date:</b>	12 months after purchase
<b>References:</b>	Takeuchi H. et al. Tumor necrosis factor-alpha induces neurotoxicity via glutamate release from hemichannels of activated microglia in an autocrine manner. J Biol Chem. 2006 Jul 28;281(30):21362-8.

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FOR RESEARCH USE ONLY



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