



Anti-Human TNF-beta

20150223ML



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	102-P88
Size:	100 µg
Lot. No.:	According to product label

Preparation: Produced from sera of rabbits pre-immunized with highly pure (>98%) recombinant human TNF beta (human Tumor Necrosis Factor-beta). Anti-human TNF beta specific antibody was purified by affinity chromatography employing immobilized human TNF beta matrix.

Target Background

Synonyms (Target):	LTA; LT; TNFB; TNFSF1
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TNF-beta, also known as lymphotoxin-alpha (LTalpha) and TNF-alpha are two structurally and functionally related proteins that bind to the same cell surface receptors (TNF RI and TNF RII) and produce a vast range of similar, but not identical effects. Mature TNF-beta/LTalpha and TNF-alpha share approximately 35% protein sequence homology, and the biologically active secreted forms of both proteins are trimers. Human and mouse TNF-beta/LTalpha share approximately 74% homology in their amino acid sequence and exhibit cross-species activity. Soluble TNF-beta/LTalpha is a homotrimer in solution. Secreted TNF-beta/LTalpha also complexes with the membrane associated LTbeta/TNFSF3 to generate two types of heterotrimers, LTalpha1/beta2 and LTalpha2/beta1.

Database References Target

Protein RefSeq:	NP_001153212.1
Uniprot ID:	P01374
mRNA RefSeq:	NM_001159740.1

Product Specifications

Species reactivity	Human
Clone/Ab feature	Rabbit IgG
Cross reactivity	Human
Host	Rabbit
Clonality	Polyclonal Antibody
Purification	Antigen-affinity purified
Immunogen	recombinant human TNF-beta
Formulation	lyophilized from PBS
Reconstitution buffer	water

Reconstitution: Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

Stability: The lyophilized antibody is stable for at least 2 years from date of receipt at -20°C. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.



AVOID REPEATED FREEZE AND THAW CYCLES!

Applications

Neutralization: To yield one-half maximal inhibition [ND₅₀] of the biological activity of human TNF-beta (0.12 ng/ml), a concentration of 0.002 - 0.004 µg/ml of this antibody is required.

ELISA: To detect human TNF-beta by direct ELISA (using 100 µl/well antibody solution) a concentration of at least 0.5 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of 0.2 - 0.4 ng/well of recombinant human TNF-beta.

Western Blot: To detect human TNF-beta by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant human TNF-beta is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!