

Active Recombinant Human TNF protein, His-tagged

Cat. No. TNF-55H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human TNF protein(P01375)(77~233 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	77-233 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Tumor necrosis factor alpha (TNF-α), also known as cachectin and TNFSF2, is mainly secreted by macrophages and is the prototypic ligand of the TNF superfamily. TNF-α plays important roles in processes such as immunomodulation, fever, inflammatory response, inhibition of tumor formation and inhibition of viral replication. TNFα signals through two distinct cell surface receptors, TNFR1 (TNFRSF1A, CD120a, p55) and TNFR2 (TNFRSF1B, CD120b, p75). Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human TNF-α and recombinant mouse TNFRSF1B. Briefly, TNF-α was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 μl were then transferred to TNFRSF1B-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST and incubated for 1h with anti-TNF-α pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37°C, wells were aspirated

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and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µ stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant human TNF-α and recombinant mouse TNFRSF1B was shown, the EC50 for this effect is 0.11 ug/mL.

Molecular Mass	21.0kDa
Purity	> 95% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	TNF tumor necrosis factor [Homo sapiens]
Official Symbol	TNF
Synonyms	TNF; tumor necrosis factor; TNFA, tumor necrosis factor (TNF superfamily, member 2); DIF; TNF superfamily, member 2; TNF alpha; TNFSF2; TNF-α; cachectin; APC1 protein; TNF, monocyte-derived; TNF, macrophage-derived; TNF superfamily, member 2; tumor necrosis factor alpha; tumor necrosis factor-alpha; tumor necrosis factor ligand superfamily member 2; TNFA; TNF-alpha;
Gene ID	7124
mRNA Refseq	NM_000594

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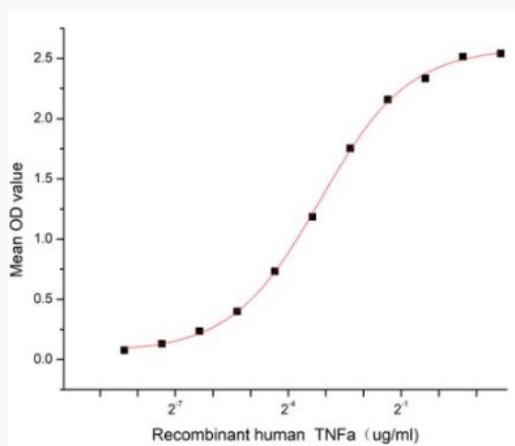
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Protein Refseq NP_000585

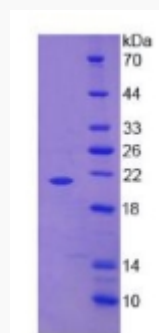
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UniProt ID P01375

Activity



SDS-PAGE



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