

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. TNF α 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 μ l 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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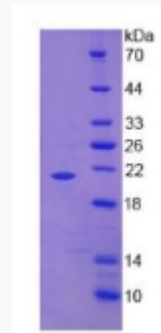
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Protein Refseq NP_000585

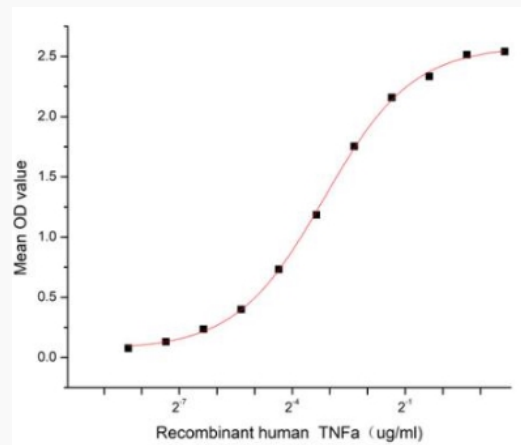
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UniProt ID P01375

SDS-PAGE



Activity



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