

Tumor Necrosis Factor Receptor 1 (TNFR1) Active Protein | TNFR1 active protein

Active Tumor Necrosis Factor Receptor 1 (TNFR1)

CATALOG # AAA149245	HOST E. coli	REACTIVITY Homo sapiens (Human)	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Tumor Necrosis Factor Receptor 1 (TNFR1); Active Tumor Necrosis Factor Receptor 1 (TNFR1); CD120A; P55; TNFRSF1A; TBP1; FPF; TNF-R; TNF-R-I; TNF-R55; TNFAR; TNFR55; TNFR60; P55-R; P60; Tumor necrosis factor receptor 1; Tumor necrosis factor-binding protein 1; TNFR1 active protein

PRODUCT SPECIFICATIONS

Host	E. coli
Reactivity	Homo sapiens (Human)
Purity/Purification	>92%
Form/Format	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.
Concentration	Original Concentration: 1000ug/mL (varies by lot)
Applicable Applications for TNFR1 active protein	Activity Assay, Cell Culture
Source	Prokaryotic expression.
Residues	Cys248~Met428
Tags	N-terminal His-tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method).
Predicted isoelectric point	7.1
Usage	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

IMAGES

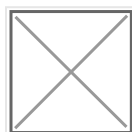

WB (Western Blot)

Figure 3. Western BlotSample: Recombinant TNFRSF1A, Human;Antibody: Rabbit Anti-Human TNFRSF1A Ab

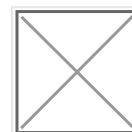

SDS-PAGE

Figure 2. SDS-PAGESample: Active recombinant TNFRSF1A, Human



Bioactivity

Tumor necrosis factor receptor superfamily member 1A (TNFRSF1A), also known as Tumor necrosis factor receptor 1 (TNFR1) and CD120a, is a ubiquitous membrane receptor that binds tumor necrosis factor-alpha (TNFAlpha). This receptor can activate the transcription factor NF-kB, mediate apoptosis, and function as a regulator of inflammation. Antiapoptotic protein BCL2-associated athanogene 4 (BAG4/SODD) and adaptor proteins TRADD and TRAF2 have been shown to interact with this receptor, and thus play regulatory roles in the signal transduction mediated by the receptor. Besides, Granulin (GRN) has been identified as an interactor of TNFRSF1A, thus a binding ELISA assay was conducted to detect the interaction of recombinant human TNFRSF1A and recombinant human GRN. Briefly, TNFRSF1A were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to GRN-coated microtiter wells and incubated for 2h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-TNFRSF1A pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of TNFRSF1A and GRN was shown in Figure 1, and this effect was in a dose dependent manner.



Sequence

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507575
NCBI GeneID	7132
NCBI Accession #	NP_001056.1
NCBI GenBank Nucleotide #	NM_001065.3
UniProt Accession #	P19438
NCBI Official Full Name	tumor necrosis factor receptor superfamily member 1A isoform 1
NCBI Official Synonym Full Names	TNF receptor superfamily member 1A
NCBI Official Symbol	TNFRSF1A
NCBI Official Synonym Symbols	FPF; p55; p60; TBP1; TNF-R; TNFAR; TNFR1; p55-R; CD120a; TNFR55; TNFR60; TNF-R-I; TNF-R55
NCBI Protein Information	tumor necrosis factor receptor superfamily member 1A
UniProt Protein Name	Tumor necrosis factor receptor superfamily member 1A
UniProt Gene Name	TNFRSF1A
UniProt Synonym Gene Names	TNFAR; TNFR1; TNF-R1; TNF-RI; TNFR-I; TBPI
UniProt Entry Name	TNR1A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-homo-sapiens-human-active-protein/tumor-necrosis-factor-receptor-1-tnfr1/149245>