

Human TNF Receptor I protein, His tag

Cat. No. GTX00236-pro

Applications Functional Assay

Species Human

Package

10 µg

Applications

Application Note

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 (TNFα). This receptor can activate the transcription factor NF-κB, 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 100 µl were then transferred to GRN-coated microtiter wells and incubated for 2h at 37°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°C. Finally, add 50 µl stop solution to the wells and read at 450nm immediately. The binding activity of TNFRSF1A and GRN was in a dose dependent manner.

Observed MW (kDa) 24 kDa.

Properties

Form Lyophilized powder

Buffer Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.

Preservative ProClin 300

Storage For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.

Region/Sequence N-terminal His-Tag; Cys248~Met428 (NP_001056.1)

Expression System E. coli

Purity > 90%

Endotoxin < 1 EU/µg

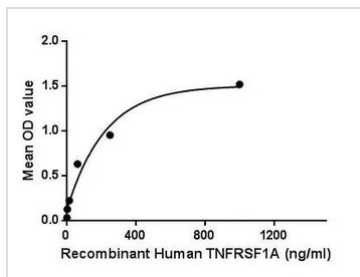
Conjugation Unconjugated

Note For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

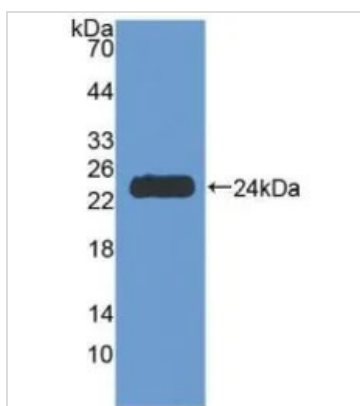


For full product information, images and publications, please visit our [website](#).

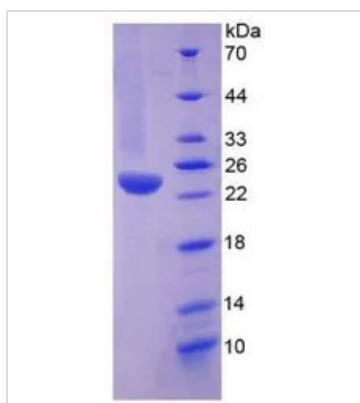
Date 2026 / 01 / 01 Page 1 of 2

DATA IMAGES

GTx00236-pro Functional Assay Image

Functional ELISA analysis of GTx00236-pro Human TNF Receptor I protein which can bind immobilized GRN protein.


GTx00236-pro Image

WB analysis of GTx00236-pro Human TNF Receptor I protein.


GTx00236-pro Image

SDS-PAGE analysis of GTx00236-pro Human TNF Receptor I protein.



For full product information, images and publications, please visit our [website](https://www.genetex.com).