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## Product Datasheet

### Human TNF Receptor II protein, His tag (active), Unconjugated GTX00235-PRO

Artikelname	Human TNF Receptor II protein, His tag (active), Unconjugated
Artikelnummer	GTX00235-PRO
Hersteller Artikelnummer	GTX00235-pro
Alternativnummer	GTX00235-PRO-10
Hersteller	GeneTex
Kategorie	Proteine/Peptide
Applikation	FA
Spezies Reaktivität	Human
Konjugation	Unconjugated
NCBI	<a href="#">7133</a>
UniProt	<a href="#">P20333</a>
Puffer	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, ProClin 300.
Expression System	E. coli
Formulierung	Lyophilized powder
Sequenz	N-terminal His-Tag, Ala298~Leu441 (NP_001057.1)

#### Anwendungsbeschreibung

Tumor necrosis factor receptor superfamily member 1B (TNFRSF1B), also known as tumor necrosis factor receptor 2 (TNFR2) and CD120b, is a membrane receptor that binds tumor necrosis factor- $\alpha$  (TNF $\alpha$ ). This protein and TNF-receptor 1 form a heterocomplex that mediates the recruitment of two anti-apoptotic proteins, c-IAP1 and c-IAP2, which possess E3 ubiquitin ligase activity. Besides, Tumor Necrosis Factor Alpha (TNF $\alpha$ ) has been identified as an interactor of TNFRSF1B, thus a binding ELISA assay was conducted to detect the interaction of recombinant human TNFRSF1B and recombinant human TNF $\alpha$ . Briefly, TNFRSF1B were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100  $\mu$ l were then transferred to TNF $\alpha$ -coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-TNFRSF1B 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 37C. Finally, add 50  $\mu$ l stop solution to the wells and read at 450nm immediately. The binding activity of TNFRSF1B and TNF $\alpha$  was in a dose dependent manner. To tested cell apoptosis, A549 cells were seeded into triplicate wells of 96-well plates at a density of 2000 cells/well. and allowed to attach, replaced with serum-free overnight, then the medium was replaced with 2% serum standard DMEM including 1 $\mu$ g/ml TNF $\alpha$  and various concentrations of recombinant human TNFRSF1B. After incubated for 96h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10  $\mu$ l of CCK-8 solution was added to each well of the plate, then the absorbance at 450nm was measured using a microplate reader after incubating the plate at 37C for 1-4 hours. Apoptosis of A549 cells had been inhibit after incubation with TNFRSF1B for 96h observed by inverted microscope . Cell viability was assessed by CCK-8 (Cell Counting Kit-8) assay after incubation with recombinant TNFRSF1B for 96h. And TNFRSF1B significantly suppress cell apoptosis induced by TNF $\alpha$ .