

Anti-TRAIL Picoband Antibody

Catalog # ABO10079

Product Information

Application	WB
Primary Accession	P50592
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Tumor necrosis factor ligand superfamily member 10(Tnfsf10) detection. Tested with WB in Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	22035
Other Names	Tumor necrosis factor ligand superfamily member 10, TNF-related apoptosis-inducing ligand, Protein TRAIL, CD253, Tnfsf10, Trail
Calculated MW	33477
Application Details	Western blot, 0.1-0.5 µg/ml, Mouse, Rat
Subcellular Localization	Membrane ; Single-pass type II membrane protein .
Tissue Specificity	Widespread.
Source	Eukaryota
Protein Name	Tumor necrosis factor ligand superfamily member 10
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	E.coli-derived mouse TRAIL recombinant protein (Position: Y39-N291). Mouse TRAIL shares 66.3% amino acid (aa) sequence identity with human TRAIL.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Protein Information

Name	Tnfsf10
Synonyms	Trail
Function	Cytokine that binds to TNFRSF10A/TRAILR1, TNFRSF10B/TRAILR2, TNFRSF10C/TRAILR3, TNFRSF10D/TRAILR4 and possibly also to TNFRSF11B/OPG. Induces apoptosis. Its activity may be modulated by binding to the decoy receptors TNFRSF10C/TRAILR3, TNFRSF10D/TRAILR4 and TNFRSF11B/OPG that cannot induce apoptosis.
Cellular Location	Cell membrane {ECO:0000250 UniProtKB:P50591}; Single-pass type II membrane protein {ECO:0000250 UniProtKB:P50591} Secreted {ECO:0000250 UniProtKB:P50591}. Note=Exists both as membrane- bound and soluble form. {ECO:0000250 UniProtKB:P50591}
Tissue Location	Widespread.

Background

TNF-related apoptosis-inducing ligand (TRAIL), is a protein functioning as a ligand that induces the process of cell death called apoptosis. TRAIL has also been designated CD253 (cluster of differentiation 253). It is a member of Tumor Necrosis Factor Ligand Superfamily. In humans, the gene that encodes for TRAIL is located at chromosome 3q26. TRAIL has got 281 amino acid proteins. TRAIL mRNA is expressed at significant levels in most normal tissues. TRAIL binds to the death receptors DR4 (TRAIL-RI) and DR5 (TRAIL-RII) and the receptors DcR1 and DcR2, leading to activation of specific kinases and transcription of genes.

Images

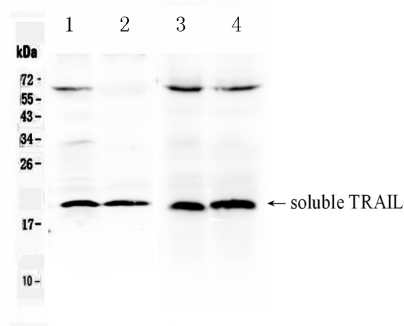


Figure 1. Western blot analysis of TRAIL using anti- TRAIL antibody (ABO10079). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: HEPA1-6 whole Cell lysates, Lane 2: NIH3T3 whole Cell lysates, Lane 3: PC12 whole Cell lysates, Lane 4: NRK whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti- TRAIL antigen affinity purified polyclonal antibody (Catalog # ABO10079) at 0.5 μ g/mL overnight at 4 $^{\circ}$ C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for TRAIL at approximately 20KD. The expected band size for TRAIL is at 35KD.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.