

Polyclonal Anti- TRAIL Picoband™ Antibody

Catalog Number: PB9060

Description

Gene Name	tumor necrosis factor (ligand) superfamily, member 10
Recommended Protein Name	Tumor necrosis factor ligand superfamily member 10
Lot No.	0901412Da246077
Size	100µg/vial
Form	lyophilized
Ig type	Rabbit IgG
Specificity	No cross reactivity with other proteins.
Purification	Immunogen affinity purified.
Species	Reacts with: human
Immunogen	E.coli-derived human TRAIL recombinant protein (Position: W78-G281). Human TRAIL shares 68% amino acid (aa) sequence identity with mouse TRAIL.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .

Application

	Concentration	Tested Species	Antigen Retrieval
Western blot	0.1-0.5µg/ml	Hu	-

WB: The detection limit for TRAIL is approximately 0.5ng/lane under reducing conditions.

Tested Species: In-house tested species with positive results.

Other applications have not been tested.

Optimal dilutions should be determined by end users.

Preparation and storage

Reconstitution: 0.2ml of distilled water will yield a concentration of 500µg/ml.

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.

Relevant detection systems

Boster provides a series of assays reacted with primary antibodies. Antibody can be supported by chemiluminescence kit EK1002 in WB.

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.

Reference

1. Wiley SR, Schooley K, Smolak PJ, Din WS, Huang CP, Nicholl JK, Sutherland GR, Smith TD, Rauch C, Smith CA (December 1995). "Identification and characterization of a new member of the TNF family that induces apoptosis". *Immunity* 3 (6): 673–82.
2. Pitti RM, Marsters SA, Ruppert S, Donahue CJ, Moore A, Ashkenazi A (May 1996). "Induction of apoptosis by Apo-2 ligand, a new member of the tumor necrosis factor cytokine family". *J. Biol. Chem.* 271 (22): 12687–90.
3. Song JJ, Lee YJ (May 2008). "Differential cleavage of Mst1 by caspase-7/-3 is responsible for TRAIL-induced activation of the MAPK superfamily". *Cell. Signal.* 20 (5): 892–906.