

## Product datasheet for **TA354553**

### TRAIL (TNFSF10) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB 0.1-1 µg/ml ELISA 0.01-0.1 µg/ml IP 2-5 µg/ml IHC 2-10 µg/ml FC 5-10 µg/ml
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide corresponding to the internal sequence of human TRAIL protein (from 160aa-190aa). This sequence is has one amino acid difference from rat origin.
Formulation:	This affinity purified antibody is supplied in sterile Phosphate buffered saline (pH7.2) containing antibody stabilizer.
Purification:	The Rabbit IgG is purified by Epitope Affinity Purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	~34 kDa
Gene Name:	tumor necrosis factor superfamily member 10
Database Link:	<a href="#">NP_001177871</a> <a href="#">Entrez Gene 8743 Human</a> <a href="#">P50591</a>



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**Background:**

The TRAIL(TNF related apoptosis induced ligand) or Apo 2L /CD253 protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. The ligand binding to its receptors DR4/DR5 initiates apoptosis of tumor cells. TRAIL is expressed predominantly in spleen, lung, and prostate but also in many other tissues. TRAIL is a type II membrane protein from the TNF family. The human form of the protein is 281 amino acids in length, whereas the murine form is 291 amino acids. The two forms share 65% identity. TRAIL protein preferentially induces apoptosis in transformed and tumor cells, but does not appear to kill normal cells although it is expressed at a significant level in most normal tissues. This protein binds to several members of TNF receptor superfamily including TNFRSF10A/TRAILR1, TNFRSF10B/TRAILR2, TNFRSF10C/TRAILR3, TNFRSF10D/TRAILR4. The activity of this protein may be modulated by binding to the decoy receptors TNFRSF10C/TRAILR3, TNFRSF10D/TRAILR4, and TNFRSF11B/OPG that cannot induce apoptosis. The binding of this protein to its receptors has been shown to trigger the activation of MAPK8/JNK, caspase 8, and caspase 3.

**Synonyms:**

Apo-2L; APO2L; CD253; TL2; TRAIL

**Protein Families:**

Druggable Genome, Transmembrane

**Protein Pathways:**

Apoptosis, Cytokine-cytokine receptor interaction, Natural killer cell mediated cytotoxicity

**Product images:**

WB: The cell lysate derived from Raji was separated in 10% SDS-PAGE, transferred onto NC membrane, and immunoblotted by Rabbit anti-CD253/TRAIL (IN2) at 1:500. An immunoreactive band is observed at ~34 kDa. A weak band around 60 kDa suggesting a dimer might occur.