

Product Information

Anti-TRAIL

produced in rabbit, IgG fraction of antiserum

Catalog Number **T9191**

Synonym: Anti-Apo-2L

Product Description

Anti-TRAIL is produced in rabbit using a peptide corresponding to amino acids 261-277 of the C-terminal of human TRAIL as immunogen.

Anti-TRAIL recognizes human TRAIL (TNF-related apoptosis inducing ligand) by immunoblotting.

TRAIL, also called Apo-2 ligand, is a cytokine from the TNF family.^{1,2} It initiates apoptosis of tumor cells by binding to either of its receptors, DR4 or DR5.³⁻⁶ These receptors consist of an extracellular TRAIL binding domain and a cytoplasmic "death domain". In addition, two decoy receptors for TRAIL have also been identified. These receptors, designated DcR1 and DcR2, lack the death domain. Binding of TRAIL to either of these receptors, therefore, does not transmit the death signal. Thus, these receptors represent a novel way of regulating a cell's sensitivity to a pro-apoptotic cytokine at the cell's surface.^{7,8} TRAIL itself is a type II membrane protein. 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 is expressed predominantly in spleen, lung, and prostate but is expressed in many other tissues as well.¹

Reagents

Supplied as 1.0 mg/ml of IgG fraction of antiserum in phosphate buffered saline, containing 0.02% sodium azide.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

For continuous use, store at 2-8 °C for up to one month. For extended storage, freeze in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

Immunoblotting: the recommended working concentration is 1 µg/ml using total HeLa cell lysates. A 35 kDa band, which represents a membrane bound form of TRAIL, is detected.

Note: In order to obtain best results and assay sensitivities of different techniques and preparations, we recommend determining optimal working dilutions by titration test.

References

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5. Walczak, H., et al., TRAIL-R2: a novel apoptosis-mediating receptor for TRAIL. *EMBO J.*, **16**, 5386-5397 (1997).
6. MacFarlane, M., et al., Identification and molecular cloning of two novel receptors for the cytotoxic ligand TRAIL. *J. Biol. Chem.*, **10**, 25417-25420 (1997).

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