TNFRSF10A (Death receptor 4, TNF-related apoptosis-inducing ligand receptor 1)

Catalog number

145293

Supplier

United States Biological

TNFRSF10A (Tumor Necrosis Factor Receptor Subfamily Member 10A), also known as APO2, DR4 or TRAILR1, is a protein that in humans is encoded by the TNFRSF10A gene. The protein encoded by this gene is a member of the TNF-receptor superfamily. By analysis of radiation hybrids, Marsters et al. (1997) mapped the DR4 gene to 8p21. The TRAIL receptor DR5, and 2 decoy receptors for TRAIL, DCR1, and DCR2, are located in the same region, suggesting that these receptors arose from recent gene duplication events. Pan et al. (1997) found that, as with FAS, TNFR1, and DR3, overexpression of DR4 induced apoptosis. However, unlike the other 3 death receptors, DR4 did not use FADD to transmit the death signal, suggesting the use of distinct proximal signaling machinery.

UniProt Number

O00220

Gene ID

TNFRSF10A

Applications

Suitable for use in Western Blot.

Recommended Dilution

Optimal dilutions to be determined by the researcher.

Storage and Handling

Store at -20˚C for one year. After reconstitution, store at 4˚C for one month. Can also be aliquoted and stored frozen at -20˚C for long term.
Avoid repeated freezing and thawing. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminal of human TNFRSF10A.

Formulation

Supplied as a lyophilized powder. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. Reconstitution: Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Purity

Purified by immunoaffinity chromatography.

Specificity

Recognizes human TNFRSF10A. No crossreactivity with other proteins.

Product Type

Pab

Source

human

Isotype

IgG

Grade

Affinity Purified

Applications

WB

Crossreactivity

Hu

Storage

4°C/-20°C

Reference

1. Marsters, S. A., Sheridan, J. P., Pitti, R. M., Huang, A., Skubatch, M., Baldwin, D., Yuan, J., Gurney, A., Goddard, A. D., Godowski, P., Ashkenazi, A. A novel receptor for Apo2L/TRAIL contains a truncated death domain. Curr. Biol. 7: 1003-1006, 1997.
2. Pan, G., O'Rourke, K., Chinnaiyan, A. M., Gentz, R., Ebner, R., Ni, J., Dixit, V. M. The receptor for the cytotoxic ligand TRAIL. Science 276: 111-113, 1997.