

TNFSF10

Reactivity:Human Mouse

Tested applications:WB IHC

Recommended Dilution:WB 1:500 - 1:2000 IHC 1:50 - 1:200

Calculated MW:33kDa

Observed MW:Refer to Figures

Immunogen:

Recombinant protein of human TNFSF10

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

b

Synonym:

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

Catalog #:A2138

Antibody Type:

Polyclonal Antibody

Species:Rabbit

Gene ID:8743

Isotype:IgG

Swiss Prot:P50591

Purity:Affinity purification

For research use only.

Background:

Tumor necrosis factor (TNF)-related apoptosis-inducing ligand (TRAIL), also referred to as Apo2 ligand, first identified based on its sequence homology to TNF and Fas/Apo ligand is a member of the TNF family of cytokines and either exists as a type II membrane or soluble protein (1,2). TRAIL induces apoptosis in a variety of transformed cell lines and plays a role in anti-tumor and anti-viral immune surveillance (3). TRAIL signals via binding with death receptors DR4 (TRAIL-R1) (4) and DR5 (TRAIL-R2) (5-8) which can trigger apoptosis as well as NF-B activation (7,9). Death domains on these receptors leads to the recruitment of a death-induced signaling complex (DISC) leading to caspase-8 and subsequent caspase-3 activation. In addition, TRAIL binds with decoy receptors DcR1 (TRAIL-R3) (10-13) and DcR2 (TRAIL-R4, TRUNDD) (14-15) which lack the functional cytoplasmic death domain antagonizing TRAIL-induced apoptosis. Osteoprotegerin (OPG) has also been identified as receptor capable of inhibiting TRAIL-induced apoptosis (16). The selectivity of soluble TRAIL at triggering apoptosis in transformed cells as compared to normal cells has led to its investigation as a potential cancer therapeutic (17-18).

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