

Trail Antibody

Catalog # ASC10008

Product Information

Application WB, E, IHC-P **Primary Accession** P50591

Other Accession <u>NP_003801</u>, <u>4507593</u>

Reactivity
Human
Rabbit
Clonality
Polyclonal
Isotype
IgG
Calculated MW
32509
Concentration (mg/ml)
Conjugate
Human
Rabbit
Rabbit
Polyclonal
IgG
Unconjugate

Application Notes TRAIL antibody can be used for detection of TRAIL by Western blot at 1 g/mL

dilution. Antibody can also be used for immunohistochemistry starting at 20

□g/mL.

Additional Information

Gene ID 8743

Other Names Trail Antibody: TL2, APO2L, CD253, TRAIL, Apo-2L, Tumor necrosis factor

ligand superfamily member 10, Apo-2 ligand, tumor necrosis factor (ligand)

superfamily, member 10

Target/Specificity TNFSF10;

Reconstitution & Storage Trail antibody can be stored at 4°C for three months and -20°C, stable for up

to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high

temperatures.

PrecautionsTrail Antibody is for research use only and not for use in diagnostic or

therapeutic procedures.

Protein Information

Name TNFSF10

Synonyms APO2L, TRAIL

Function Cytokine that binds to TNFRSF10A/TRAILR1, TNFRSF10B/TRAILR2,

TNFRSF10C/TRAILR3, TNFRSF10D/TRAILR4 and possibly also to

TNFRSF11B/OPG (PubMed: 10549288, PubMed: 26457518). Induces apoptosis.

Its activity may be modulated by binding to the decoy receptors

TNFRSF10C/TRAILR3, TNFRSF10D/TRAILR4 and TNFRSF11B/OPG that cannot

induce apoptosis.

Cellular Location Cell membrane; Single-pass type II membrane protein. Secreted. Note=Exists

both as membrane-bound and soluble form.

Tissue Location Widespread; most predominant in spleen, lung and prostate

Background

Trail Antibody: Apoptosis, or programmed cell death, occurs during normal cellular differentiation and development of multicellular organisms. Apoptosis is induced by certain cytokines including TNF and Fas ligand in the TNF family through their death domain containing receptors, TNFR1 and Fas. TRAIL (TNF-related apoptosis-inducing ligand) is a type II membrane protein and expressed in a variety of human tissues (1,2). The death domain containing receptors DR4 and DR5 have been identified as the receptor for TRAIL (3-6). Like TNF and Fas ligand, TRAIL induces apoptosis and NF-kB activation in many tissues and cells.

References

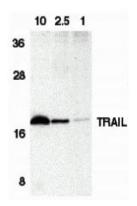
Wiley SR, Schooley K, Smolak PJ, et al. Identification and characterization of a new member of the TNF family that induces apoptosis. Immunity 1995; 3:673-82.

Pitti RM, Marsters SA, Ruppert S, et al. Induction of apoptosis by Apo-2 ligand, a new member of the tumor necrosis factor cytokine family. J. Biol. Chem. 1996; 271:12687-90.

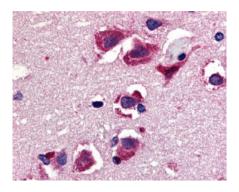
Pan G, O'Rourke K, Chinnaiyan AM, et al. The receptor for the cytotoxic ligand TRAIL. Science; 1997; 276:111-3.

Schneider P, Thome M, Burns K, et al. TRAIL receptors 1 (DR4) and 2 (DR5) signal FADD-dependent apoptosis and activate NF-κB. Immunity 1997; 7:831-6.

Images



Western blot analysis of TRAIL in HeLa cell lysate containing 10, 2.5, or 1 ng of recombinant protein containing extracellular domain of TRAIL with TRAIL antibody at 1 $\mu g/mL$.



Immunohistochemistry of TRAIL in human brain tissue with TRAIL antibody at 20 µg/mL.

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