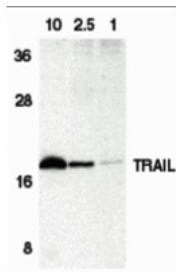


Trail Antibody

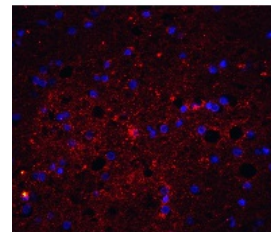
CATALOG NUMBER: 1113



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 ug/mL.

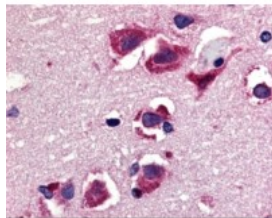


Western blot analysis of TRAIL in human brain tissue lysate with TRAIL antibody at (A) 2.5 and (B) 5 ug/mL.



Immunofluorescence of TRAIL in human brain tissue with Trail antibody at 20 ug/mL.

Red: Trail Antibody (1113)
Blue: DAPI staining



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

Specifications

SPECIES REACTIVITY: Human

HOMOLOGY: Predicted species reactivity based on immunogen sequence: Mouse: (82%)

TESTED APPLICATIONS: ELISA, IF, IHC-P, WB

APPLICATIONS: TRAIL antibody can be used for detection of TRAIL by Western blot at 1 - 5 ug/mL dilution. Antibody can also be used for immunohistochemistry starting at 20 ug/mL.

Antibody validated: Western Blot in human samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.

USER NOTE: Optimal dilutions for each application to be determined by the researcher.

POSITIVE CONTROL:

- 1) Cat. No. 1201 - HeLa Cell Lysate
- 2) Cat. No. 1303 - Human Brain Tissue Lysate
- 3) Cat. No. 10-301 - Human Brain Tissue Slide

PREDICTED MOLECULAR WEIGHT:	Predicted: 32 kDa Observed: 35 kDa
IMMUNOGEN:	TRAIL antibody was raised against a peptide corresponding to 17 amino acids near the carboxy terminus of human TRAIL. The immunogen is located within the last 50 amino acids of Trail.
HOST SPECIES:	Rabbit

Properties

PURIFICATION:	Trail Antibody is affinity chromatography purified via peptide column.
PHYSICAL STATE:	Liquid
BUFFER:	Trail Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	batch dependent
STORAGE CONDITIONS:	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.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	Trail Antibody: TL2, APO2L, CD253, TRAIL, Apo-2L, Tumor necrosis factor ligand superfamily member 10, Apo-2 ligand
ACCESSION NO.:	NP_003801
PROTEIN GI NO.:	4507593
OFFICIAL SYMBOL:	TNFSF10
GENE ID:	8743

Background

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-κB activation in many tissues and cells.

REFERENCES:	1) Wiley SR, Schooley K, Smolak PJ, et al. Identification and characterization of a new member of the TNF family that induces apoptosis. <i>Immunity</i> 1995; 3:673-82.
	2) 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. <i>J. Biol. Chem.</i> 1996; 271:12687-90.
	3) Pan G, O'Rourke K, Chinnaiyan AM, et al. The receptor for the cytotoxic ligand TRAIL. <i>Science</i> ; 1997; 276:1111-3.
	4) Schneider P, Thome M, Burns K, et al. TRAIL receptors 1 (DR4) and 2 (DR5) signal FADD-dependent apoptosis and activate NF-κB. <i>Immunity</i> 1997; 7:831-6.

FOR RESEARCH USE ONLY

January 11, 2019