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TRAIL and Receptor Detection Set

Cat. No.: PSI-1801

test.jpg

Specifications

SPECIES REACTIVITY:	Human
IMMUNOGEN:	Rabbit polyclonal antibodies were raised against peptides corresponding to amino acid sequences from each of the corresponding proteins.
TESTED APPLICATIONS:	IF, IHC, WB
APPLICATIONS:	These polyclonal antibodies can be used for detection of TRAIL and its receptors by Western blot at 2 µg/mL to 1 µg/Ml, Immunohistochemistry, and immunoflourescence.
POSITIVE CONTROL:	1) HeLa Lysate, Cat. No. 1201

Properties

PURIFICATION:	Antibodies are supplied as affinity chromatography purified IgG.
PHYSICAL STATE:	Liquid
BUFFER:	PBS containing 0.02% sodium azide.
CONCENTRATION:	Antibody 1 mg/mL
STORAGE CONDITIONS:	Stable at 4˚C for three months, store at -20˚C for up to one year.

Additional Info

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

Background and References

BACKGROUND:	Apoptosis, or programmed cell death, occurs during normal cellular differentiation and development of multicellular organism. It is induced by certain cytokines including TNF and Fas ligand in the TNF family through their death domain containing receptors. TRAIL/Apo2L is a new member of the TNF family which is expressed in a variety of human tissues. Similar to TNF and Fas ligand, TRAIL induces apoptosis and NF-κB activation in many tissues and cells. Its receptors include the death domain containing proteins DR4 and DR5, both of which mediate TRAIL induced cell death. Two decoy receptors, DcR1 and DcR2, have also been identified. Both of these proteins contain an extracellular TRAIL binding domain but lack intracellular signaling domains. Overexpression of either DcR1 or DcR2 attenuates TRAIL-induced apoptosis. **For images please see PDF data sheet**
REFERENCES:	1) 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.
	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. J. Biol. Chem. 1996; 271:12687-90.
	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.
	4) Pan G, O'Rourke K, Chinnaiyan AM, et al. The receptor for the cytotoxic ligand TRAIL. Science 1997; 276:111-3.