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# Anti-DR4 (NT) *TRAIL-R1*

**CATALOG No.:** PX062A SIZE: 100 µg
PX062B SIZE: 0.5 mg

**BACKGROUND:**

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. A novel death domain containing receptor was recently identified and designated DR4 (for death receptor 4)[1]. The ligand for this novel death receptor has been identified and termed TRAIL[2,3], which is a new member in the TNF family. DR4 is also called TRAIL receptor-1 (TRAIL-R1)[4]. DR4 is expressed in most of human tissues including spleen, peripheral blood leukocytes, small intestine and thymus. Like TNFR1, Fas and DR3, DR4 mediates apoptosis and NF-κB activation in many tissues and cells.

**SOURCE:**

Rabbit anti-DR4 (NT) polyclonal antibody was raised against a peptide corresponding to amino acid 1 to 20 of human DR4 mature protein.

**APPLICATION:**

This polyclonal antibody can be used for detection of DR4 by Western blot at 1:500 to 1:1000 dilution. HeLa or Jurkat whole cell lysate can be used as positive control and a 57 kDa band can be detected. For research use only.

**STORAGE:**

It is supplied as purified IgG, 100 µg in 200 µl of PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.

Western blot analysis of DR4 in HeLa (H), K562 (K), and Jurkat (J) whole cell lysate with anti-DR4 (NT) at 1:500 dilution.

**REFERENCES:**


1. Pan G; O'Rourke K; Chinnaiyan AM; O'Rourke K; Gentz R; Ebner R; Ni J; Dixit VM. The receptor for the cytotoxic ligand TRAIL. *Science;* 1997;276:111-113

2. Wiley SR, Schooley K, Smolak PJ, Din WS, Huang CP, Nicholl JK, Sutherland GR, Smith TD, Rauch C, Smith CA, et al. Identification and characterization of a new member of the TNF family that induces apoptosis. *Immunity* 1995;3:673-682

3. Pitti RM; Marsters SA; Ruppert S; Donahue CJ; Moore A; Ashkenazi A. Induction of apoptosis by Apo-2 ligand, a new member of the tumor necrosis factor cytokine family. *J. Biol. Chem.* 1996;271:12687-90

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**CAUTION:** NOT FOR USE IN HUMANS. FOR RESEARCH PURPOSES ONLY.


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