

DR4 Antibody
Catalog # ASC10032**Specification**

DR4 Antibody - Product Information

Application	WB
Primary Accession	O00220
Other Accession	AAC51226 , 1945072
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	57 kDa KDa
Application Notes	DR4 antibody can be used for detection of DR4 by Western blot 0.5 µg/mL. A 57 kDa band can be detected.

DR4 Antibody - Additional InformationGene ID **8797****Other Names**

DR4 Antibody: DR4, APO2, CD261, TRAILR1, TRAILR-1, DR4, Tumor necrosis factor receptor superfamily member 10A, Death receptor 4, TRAIL receptor 1, tumor necrosis factor receptor superfamily, member 10a

Target/Specificity

TNFRSF10A; DR4 antibody has no cross reaction to DR5.

Reconstitution & Storage

DR4 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.

Precautions

DR4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

DR4 Antibody - Protein Information**Name** TNFRSF10A**Synonyms** APO2, DR4, TRAILR1**Function**

Receptor for the cytotoxic ligand TNFSF10/TRAIL (PubMed:26457518). The adapter molecule FADD recruits caspase-8 to the activated receptor. The resulting death-inducing signaling complex (DISC) performs caspase-8 proteolytic activation which initiates the subsequent cascade of caspases (aspartate-specific cysteine proteases) mediating apoptosis (PubMed:19090789). Promotes the activation of NF- kappa-B (PubMed:9430227).

Cellular Location

Cell membrane; Single-pass type I membrane protein. Membrane raft. Cytoplasm, cytosol.

Note=Palmitoylation is required for association with membranes.

Tissue Location

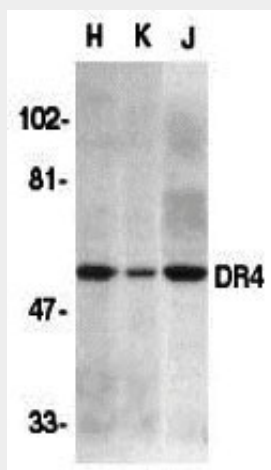
Widely expressed. High levels are found in spleen, peripheral blood leukocytes, small intestine and thymus, but also in K- 562 erythroleukemia cells, MCF-7 breast carcinoma cells and activated T-cells

DR4 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

DR4 Antibody - Images



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

DR4 Antibody - Background

DR4 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. A novel death domain containing receptor was recently identified and designated DR4 (for death receptor 4). The ligand for this novel death receptor has been identified and termed TRAIL, which is a new member in the TNF family. DR4 is also called TRAIL receptor-1 (TRAIL-R1). 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- κ B activation in many tissues and cells.

DR4 Antibody - References

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

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

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

Schneider P, Thome M, Burns K, Bodmer JL, Hofmann K, Kataoka T, Holler N, Tschopp J. TRAIL receptors 1 (DR4) and 2 (DR5) signal FADD-dependent apoptosis and activate NF- κ B. *Immunity* 1997;7:831-836 (RD1299)