

**DR4 Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10047****Specification**

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**DR4 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O00220</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	50089

**DR4 Antibody - Additional Information****Gene ID 8797**

Application & Usage	<b>Western blot analysis (0.5-4 µg/ml) and immunofluorescence. However, the optimal conditions should be determined individually. The antibody detects a 57 kDa mouse DR4 in Western blot analysis.</b>
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**Other Names**

TNFRSF10A, TRAILR1, MGC9365, APO2, CD261, TRAIL-R1, TRAILR-1

**Target/Specificity**

DR4

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µg (0.5 mg/ml) affinity purified rabbit anti-DR4 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

**Background Descriptions****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:<a href="http://www.uniprot.org/citations/26457518" target="\_blank">26457518</a>). 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:<a href="http://www.uniprot.org/citations/19090789" target="\_blank">19090789</a>). Promotes the activation of NF- kappa-B (PubMed:<a href="http://www.uniprot.org/citations/9430227" target="\_blank">9430227</a>).

### Cellular Location

Cell membrane; Single-pass type I membrane protein. Membrane raft. Cytoplasm, cytosol. Note=Palmitoylation is required for association with membranes.

### Tissue Location

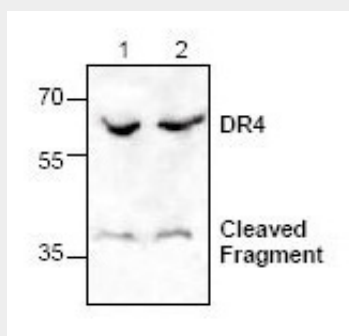
Widely expressed. High levels are found in spleen, peripheral blood leukocytes, small intestine and thymus, but also in K- 562 erythroleukemia cells, MCF-7 breast carcinoma cells and activated T-cells

## 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 expression in Jurkat cell lysate.

## **DR4 Antibody - Background**

Apoptosis can be induced by certain cytokines including TNF and Fas Ligand of the TNF super-family through their death domain (DD) containing receptors, TNFR1 and Fas. A member of the TNF receptor family was recently identified and designated DR4 (death receptor 4) and TRAIL-R1. The ligand for this novel death receptor has been identified and termed TRAIL. DR4 is expressed in most of the human tissues including spleen, peripheral blood leukocytes (PBLs), small intestine and thymus. Like TNFR1, Fas and DR3, DR4 mediates apoptosis and NFkB activation in many tissues and cells.