10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

DR4 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10046

Specification

DR4 Antibody - Product Information

Application	**WB**
Primary Accession	O00220
Reactivity	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**50089**

DR4 Antibody - Additional Information

Gene ID 8797

Application & Usage	**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.**

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.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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.

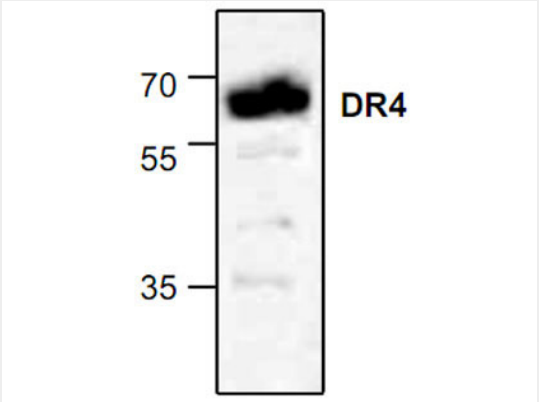
Tissue Location
Widely expressed. High levels are found in spleen, peripheral blood leukocytes, small intestine and thymus, but also in K- 562 erythroleukemia cells, MCF-7 breast carcinoma cells and activated T-cells

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 Cytomety
- Cell Culture

DR4 Antibody - Images



10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Western blot analysis of DR4 expression in 3T3 cell lysate.

DR4 Antibody - Background

Apoptosis can be induced by certain cytokines including TNF and Fas Ligand of the TNF super-family thro µgh 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.