

**Anti-DR4 Picoband Antibody**  
**Catalog # ABO10230****Specification**

---

**Anti-DR4 Picoband Antibody - Product Information**

Application	WB, IHC-F, FC, ICC
Primary Accession	<a href="#">O00220</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Tumor necrosis factor receptor superfamily member 10A(TNFRSF10A) detection. Tested with WB, IHC-F, ICC, FCM in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-DR4 Picoband Antibody - Additional Information**

**Gene ID** 8797

**Other Names**

Tumor necrosis factor receptor superfamily member 10A, Death receptor 4, TNF-related apoptosis-inducing ligand receptor 1, TRAIL receptor 1, TRAIL-R1, CD261, TNFRSF10A, APO2, DR4, TRAILR1

**Calculated MW**

50089 MW KDa

**Application Details**

Immunohistochemistry(Frozen Section), 0.5-1 µg/ml<br><br>Immunocytochemistry, 0.5-1 µg/ml<br>Western blot, 0.1-0.5 µg/ml<br>Flow Cytometry, 1-3<sup>1</sup>/<sub>4</sub>g/1x10<sup>6</sup> cells<br>

**Subcellular Localization**

Membrane; Single-pass type I membrane protein.

**Tissue Specificity**

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.

**Protein Name**

Tumor necrosis factor receptor superfamily member 10A

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the N-terminus of human DR4 (99-131aa VLLQVVPSSAATIKLHDQSIGTQQWEHSPLGEL).

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins.

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Anti-DR4 Picoband Antibody - Protein Information**

**Name** TNFRSF10A

**Synonyms** APO2, DR4, TRAILR1

**Function**

Receptor for the cytotoxic ligand TNFSF10/TRAIL (PubMed: [26457518](http://www.uniprot.org/citations/26457518), PubMed: [38532423](http://www.uniprot.org/citations/38532423)). 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](http://www.uniprot.org/citations/19090789)). Promotes the activation of NF-kappa-B (PubMed: [9430227](http://www.uniprot.org/citations/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**

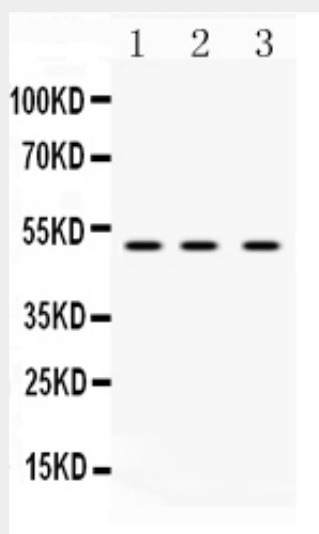
Widely expressed. High levels are found in spleen, peripheral blood leukocytes, small intestine and thymus, but also in K-562 erythroleukemia cells, MCF-7 breast carcinoma cells and activated T-cells

**Anti-DR4 Picoband 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](#)

**Anti-DR4 Picoband Antibody - Images**



Western blot analysis of DR4 expression in rat spleen extract (lane 1), mouse spleen extract (lane 2) and MCF-7 whole cell lysates (lane 3). DR4 at 50KD was detected using rabbit anti- DR4 Antigen Affinity purified polyclonal antibody (Catalog # ABO10230) at 0.5  $\mu$ g/mL. The blot was developed using chemiluminescence (ECL) method .

#### **Anti-DR4 Picoband Antibody - Background**

TNFRSF10A (Tumor Necrosis Factor Receptor Subfamily Member 10A), also known as APO2, DR4 or TRAILR1, is a protein that in humans is encoded by the TNFRSF10A gene. The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor is activated by tumor necrosis factor-related apoptosis inducing ligand (TNFSF10/TRAIL), and thus transduces cell death signal and induces cell apoptosis. Studies with FADD-deficient mice suggested that FADD, a death domain containing adaptor protein, is required for the apoptosis mediated by this protein.