

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

Anti-DR4 Picoband Antibody - Product Information

Application	WB, IHC-F, FC, ICC
Primary Accession	O00220
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

Immunocytochemistry, 0.5-1 µg/ml
Western blot, 0.1-0.5 µg/ml
Flow Cytometry, 1-3¹/₄g/1x10⁶ cells

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 Na₂HPO₄, 0.05mg NaN₃.

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

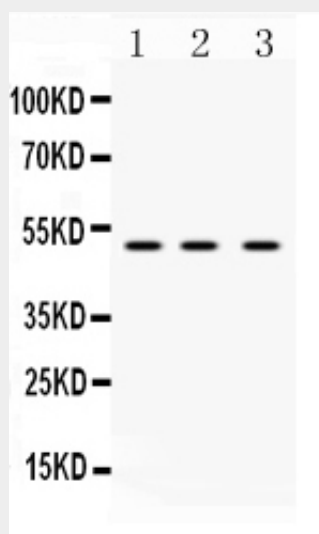
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Anti-DR4 Picoband Antibody - Protocols

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 μ 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.