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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, 1-3Î¼g/1x10⁶cells

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 r˚Constitution, 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, PubMed: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). 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

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 Cytomety
- Cell Culture

Anti-DR4 Picoband Antibody - Images

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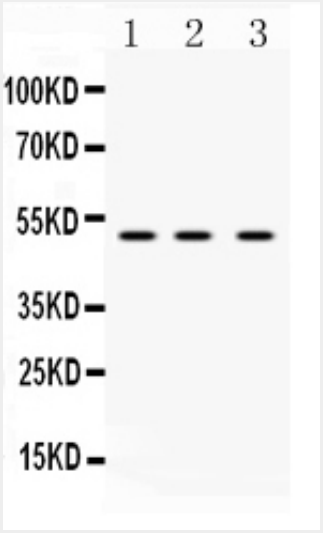

Western blot analysis of DR4 expression in rat spleen extract (lane 1), mouse spleen extract (lane 2) and MCF-7 whole cell lysates (lane 3). DR4 at 50KD was detected using rabbit anti- DR4 Antigen Affinity purified polyclonal antibody (Catalog # ABO10230) at 0.5 Î¼g/mL. The blot was developed using chemiluminescence (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.