

Anti-DR4 Picoband Antibody

Catalog # ABO10230

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.

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
Application Details	Immunohistochemistry(Frozen Section), 0.5-1 μ g/ml Immunocytochemistry, 0.5-1 μ g/ml Western blot, 0.1-0.5 μ g/ml Flow Cytometry, 1-3 μ g/1x10 ⁶ 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.
Source	Eukaryota
Protein Name	Tumor necrosis factor receptor superfamily member 10A
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human DR4 (99-131aa VLLQVPPSSAATIKLHDQSIGTQQWEHSPLGEL).

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.

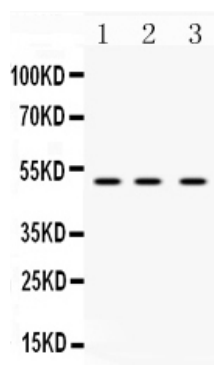
Protein Information

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

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.

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 µg/mL. The blot was developed using chemiluminescence (ECL) method.