

Anti-DR5 Picoband Antibody
Catalog # ABO10073

Specification

Anti-DR5 Picoband Antibody - Product Information

Application	WB, IHC
Primary Accession	O14763
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Tumor necrosis factor receptor superfamily member 10B(TNFRSF10B) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution

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

Anti-DR5 Picoband Antibody - Additional Information

Gene ID 8795

Other Names

Tumor necrosis factor receptor superfamily member 10B, Death receptor 5, TNF-related apoptosis-inducing ligand receptor 2, TRAIL receptor 2, TRAIL-R2, CD262, TNFRSF10B, DR5, KILLER, TRAILR2, TRICK2, ZTNFR9

Calculated MW

47878 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization

Membrane; Single-pass type I membrane protein.

Tissue Specificity

Widely expressed in adult and fetal tissues; very highly expressed in tumor cell lines such as HeLaS3, K-562, HL-60, SW480, A-549 and G-361; highly expressed in heart, peripheral blood lymphocytes, liver, pancreas, spleen, thymus, prostate, ovary, uterus, placenta, testis, esophagus, stomach and throughout the intestinal tract; not detectable in brain.

Protein Name

Tumor necrosis factor receptor superfamily member 10B

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃.

Immunogen

E.coli-derived human DR5 recombinant protein (Position: K233-S440). Human DR5 shares 48.4% amino acid (aa) sequence identity with mouse DR5.

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-DR5 Picoband Antibody - Protein Information

Name TNFRSF10B

Synonyms DR5, KILLER, TRAILR2, TRICK2, ZTNFR9

Function

Receptor for the cytotoxic ligand TNFSF10/TRAIL (PubMed:10549288). 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. Promotes the activation of NF-kappa-B. Essential for ER stress-induced apoptosis.

Cellular Location

Membrane; Single-pass type I membrane protein.

Tissue Location

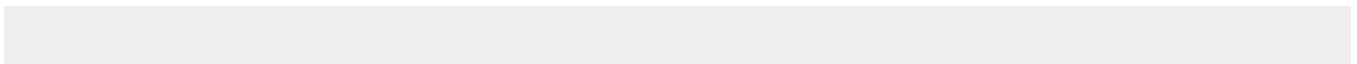
Widely expressed in adult and fetal tissues; very highly expressed in tumor cell lines such as HeLaS3, K-562, HL-60, SW480, A-549 and G-361; highly expressed in heart, peripheral blood lymphocytes, liver, pancreas, spleen, thymus, prostate, ovary, uterus, placenta, testis, esophagus, stomach and throughout the intestinal tract; not detectable in brain

Anti-DR5 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

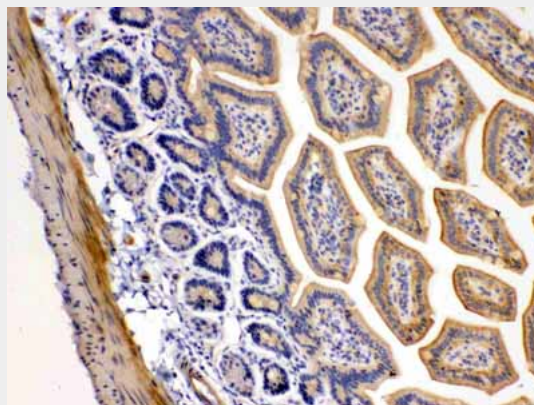
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-DR5 Picoband Antibody - Images

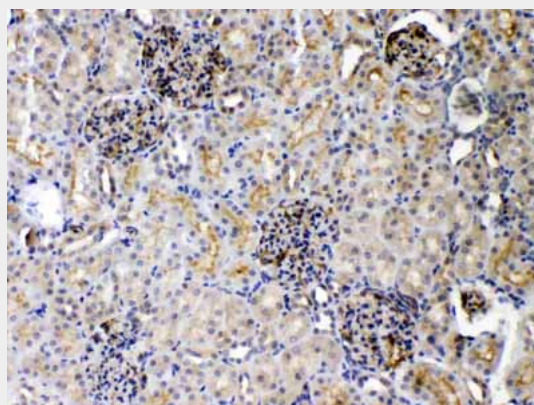




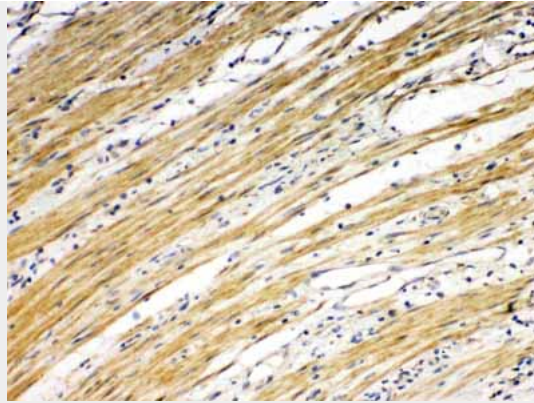
Western blot analysis of DR5 expression in rat thymus extract (lane 1), mouse cardiac muscle extract (lane 2) and K562 whole cell lysates (lane 3). DR5 at 60KD was detected using rabbit anti-DR5 Antigen Affinity purified polyclonal antibody (Catalog #ABO10073) at 0.5 μ g/mL. The blot was developed using chemiluminescence (ECL) method .



DR5 was detected in paraffin-embedded sections of mouse intestine tissues using rabbit anti-DR5 Antigen Affinity purified polyclonal antibody (Catalog # ABO10073) at 1 μ g/mL. The immunohistochemical section was developed using SABC method .



DR5 was detected in paraffin-embedded sections of rat kidney tissues using rabbit anti- DR5 Antigen Affinity purified polyclonal antibody (Catalog # ABO10073) at 1 μ g/mL. The immunohistochemical section was developed using SABC method .



DR5 was detected in paraffin-embedded sections of human intestinal cancer tissues using rabbit anti- DR5 Antigen Affinity purified polyclonal antibody (Catalog # ABO10073) at 1 μ g/mL. The immunohistochemical section was developed using SABC method .

Anti-DR5 Picoband Antibody - Background

TNFRSF10B(Tumor necrosis factor receptor superfamily, member 10b) is a human gene. It is also known as DR5, CD262, KILLER, TRICK2, TRICKB, ZTNFR9, TRAILR2, TRICK2A, TRICK2B, TRAIL-R2, KILLER/DR5. The protein encoded by this gene is a member of the TNF-receptor superfamily, and contains an intracellular death domain. This receptor can be activated by tumor necrosis factor-related apoptosis inducing ligand (TNFSF10/TRAIL/APO-2L), and transduces apoptosis signal. Mice have a homologous gene, tnfrsf10b that has been essential in the elucidation of the function of this gene in humans. Studies with FADD-deficient mice suggested that FADD, a death domain containing adaptor protein, is required for the apoptosis mediated by this protein. By analysis of radiation hybrid panels, this gene is mapped to chromosome 8p22-p21. Northern blot analysis indicated that TRAILR2 was expressed as a 4.4-kb mRNA in all tissues tested, with the highest levels of expression in peripheral blood lymphocytes, spleen, and ovary.