BOSTER BIOLOGICAL TECHNOLOGY
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Anti-DR4/TNFRSF10A Antibody Picoband®

Catalog Number: A02152

About TNFRSF10A

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.

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Overview

Product Name	Anti-DR4/TNFRSF10A Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-DR4/TNFRSF10A Antibody Picoband® catalog # A02152. Tested in IF, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IF, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	O00220

Technical Details

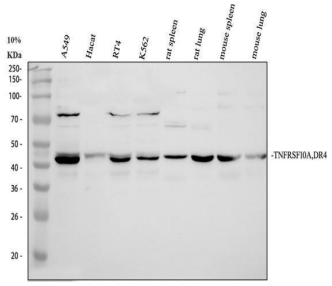
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human DR4.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for ICC.

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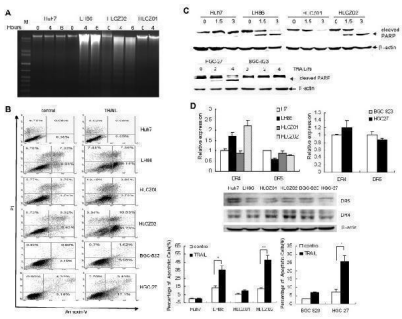
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml Immunocytochemistry/Immunofluorescence, 5 ug/ml

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Anti-DR4/TNFRSF10A Antibody Picoband® (A02152) Images



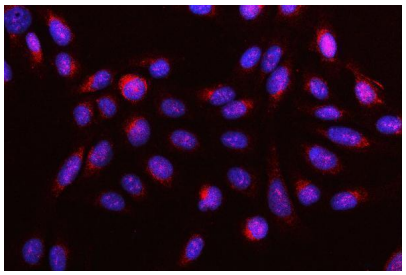
Western blot analysis of DR4/TNFRSF10A using anti-DR4/TNFRSF10A antibody (A02152). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human A549 whole cell lysates, Lane 2: human Hacat whole cell lysates, Lane 3: human RT4 whole cell lysates, Lane 4: human K562 whole cell lysates, Lane 5: rat spleen tissue lysates, Lane 6: rat lung tissue lysates, Lane 7: mouse spleen tissue lysates, Lane 8: mouse lung tissue lysates. After electrophoresis, proteins were traDR4/TNFRSF10Aerred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-DR4/TNFRSF10A antigen affinity purified polyclonal antibody (A02152) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for DR4/TNFRSF10A at approximately 45 kDa. The expected band size for DR4/TNFRSF10A is at 50 kDa.



The cytotoxic effect of TRAIL on human HCC and GC cell lines. (A) Detection of DNA fragmentation by DNA ladder assay. LH86, Huh7, HLCZ01 and HLCZ02 cells were exposed to TRAIL for 4 hours. 2 ug of cellular DNA was separated on 1% agarose gel at 50V for one hour. The data are one representative of three independent experiments. (B) Detection of apoptosis by flow cytometry and western blot. LH86, Huh7, HLCZ01, HLCZ02, HGC-27 and BGC-823 cells were exposed to TRAIL for 4 hours. Samples were analyzed on a FACS Caliber Cytometer. A minimum of 30000 events per samples were acquired, and subsequently analyzed with CellQuest software. The results are the average of at least three independent experiments. (C) Cleaved PARP was detected by western blot. beta–actin was used as control. The data are one representative of three independent experiments. (D) Detection of DR4 and DR5 in HCC and GC cell lines by real-time PCR and western blot analysis. DR4 or DR5 mRNA were detected by real-time RT-PCR and normalized with GAPDH respectively. The results are the average of three independent experiments performed in triplicate. DR4 and DR5 protein was detected by western blot. The data are one representative of three independent experiments.Index in PubMed under a CC BY license. PMID: 24970806

IF analysis of ATG14L using anti-ATG14L antibody (A02152). ATG14L was detected in an immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using

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IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-ATG14L Antibody (A02152) overnight at 4°C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

3 Publications Citing This Product

1. PubMed ID: 10.1371/journal.pone.0079384, The Novel Fusion Proteins, GnRH-p53 and GnRHIII-p53, Expression and Their Anti-Tumor Effect

2. PubMed ID: 24970806, Liu N, Zuo C, Wang X, Chen T, Yang D, Wang J, Zhu H. Oncotarget. 2014 Jul 15;5(13):4959-71. Mir-942 Decreases Trail-Induced Apoptosis Through Isg12A Downregulation And Is Regulated By Akt.

3. PubMed ID: 24970806, Liu N, Zuo C, Wang X, Chen T, Yang D, Wang J, Zhu H. Oncotarget. 2014 Jul 15;5(13):4959-71. Mir-942 Decreases Trail-Induced Apoptosis Through Isg12A Downregulation And Is Regulated By Akt.

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