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antibody and ELISA experts

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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.

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 Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IF, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg 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.
Predicted Reactive Species	Human
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.
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.

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Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.1-0.5ug/ml Immunocytochemistry/Immunofluorescence, 5 ug/ml Flow Cytometry, 1-3ug/1x10^6cells

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

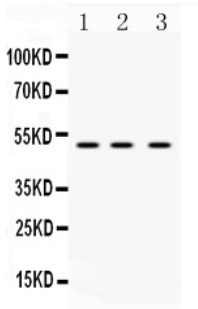

Figure 1. Western blot analysis of DR4 using anti-DR4 antibody (A02152).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
lane 1: rat spleen tissue lysates,
lane 2: mouse spleen tissue lysates,
lane 3: MCF-7 whole cell lysates.
After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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 antigen affinity purified polyclonal antibody (Catalog # 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 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for DR4 at approximately 50KD. The expected band size for DR4 is at 50KD.

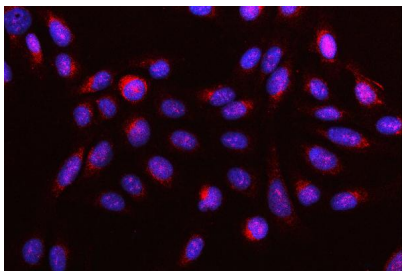

Figure 2. IF analysis of ATG14L using anti-ATG14L antibody (A02152).
ATG14L was detected in an immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated 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.

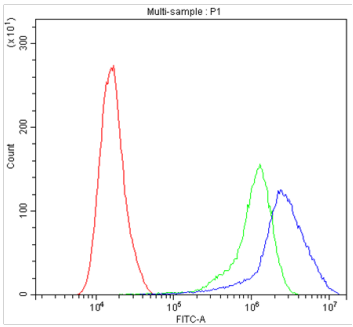

Figure 3. Flow Cytometry analysis of A549 cells using anti-DR4 antibody (A02152).
Overlay histogram showing A549 cells stained with A02152 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-DR4 Antibody (A02152,1ug/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

2 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

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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.

Visit bosterbio.com/anti-dr4-picoband-trade-antibody-a02152-boster.html to see all 2 publications.