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antibody and ELISA experts

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Anti-DR6/TNFRSF21 Antibody Picoband™

Catalog Number: A04348-2

About TNFRSF21

This gene encodes a member of the tumor necrosis factor receptor superfamily. The encoded protein activates nuclear factor kappa-B and mitogen-activated protein kinase 8 (also called c-Jun N-terminal kinase 1), and induces cell apoptosis. Through its death domain, the encoded receptor interacts with tumor necrosis factor receptor type 1-associated death domain (TRADD) protein, which is known to mediate signal transduction of tumor necrosis factor receptors. Knockout studies in mice suggest that this gene plays a role in T-helper cell activation, and may be involved in inflammation and immune regulation.

Overview

Product Name	Anti-DR6/TNFRSF21 Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-DR6/TNFRSF21 Antibody Picoband™ catalog # A04348-2. Tested in Flow Cytometry, IHC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IHC, 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	O75509

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human DR6/TNFRSF21, which shares 84.2% amino acid (aa) sequence identity with both mouse and rat DR6/TNFRSF21.
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 IHC(P).
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, 0.25-0.5ug/ml, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Human Flow Cytometry, 1-3ug/1x10^6 cells, Human

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Anti-DR6/TNFRSF21 Antibody Picoband™ (A04348-2) Images

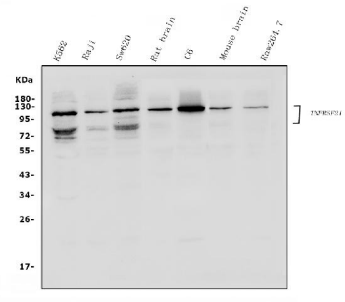

Figure 1. Western blot analysis of DR6/TNFRSF21 using anti-DR6/TNFRSF21 antibody (A04348-2).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: human K562 whole cell lysates,
Lane 2: human Raji whole cell lysates,
Lane 3: human Sw620 whole cell lysates,
Lane 4: rat brain tissue lysates,
Lane 5: rat C6 whole cell lysates,
Lane 6: mouse brain tissue lysates,
Lane 7: mouse Raw164.7 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-DR6/TNFRSF21antigen affinity purified polyclonal antibody (Catalog # A04348-2) 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 Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for DR6/TNFRSF21 at approximately 80-120KD. The expected band size for DR6/TNFRSF21 is at 72KD.

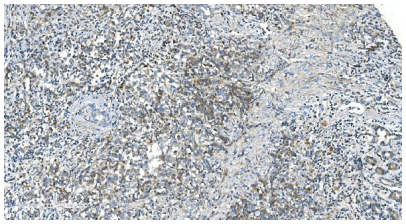

Figure 2. IHC analysis of DR6/TNFRSF21 using anti-DR6/TNFRSF21 antibody (A04348-2).
DR6/TNFRSF21 was detected in paraffin-embedded section of human gastric cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-DR6/TNFRSF21 Antibody (A04348-2) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

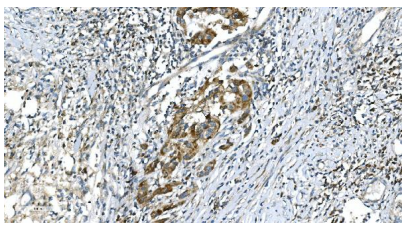

Figure 3. IHC analysis of DR6/TNFRSF21 using anti-DR6/TNFRSF21 antibody (A04348-2).
DR6/TNFRSF21 was detected in paraffin-embedded section of human bladder cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-DR6/TNFRSF21 Antibody (A04348-2) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-

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Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

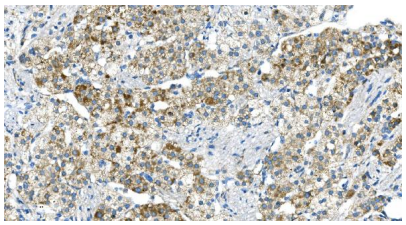

Figure 4. IHC analysis of DR6/TNFRSF21 using anti-DR6/TNFRSF21 antibody (A04348-2).
DR6/TNFRSF21 was detected in paraffin-embedded section of human renal carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-DR6/TNFRSF21 Antibody (A04348-2) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

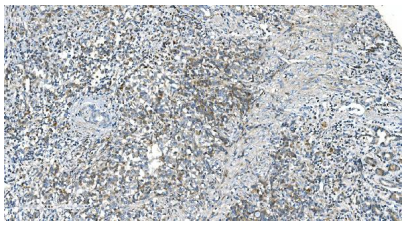

Figure 5. IHC analysis of DR6/TNFRSF21 using anti-DR6/TNFRSF21 antibody (A04348-2).
DR6/TNFRSF21 was detected in paraffin-embedded section of human gastric cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-DR6/TNFRSF21 Antibody (A04348-2) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

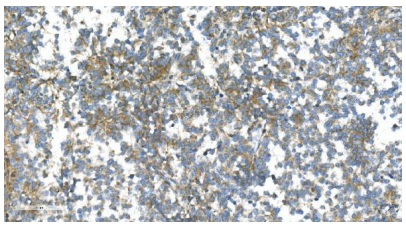

Figure 6. IHC analysis of DR6/TNFRSF21 using anti-DR6/TNFRSF21 antibody (A04348-2).
DR6/TNFRSF21 was detected in paraffin-embedded section of human melanoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-DR6/TNFRSF21 Antibody (A04348-2) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

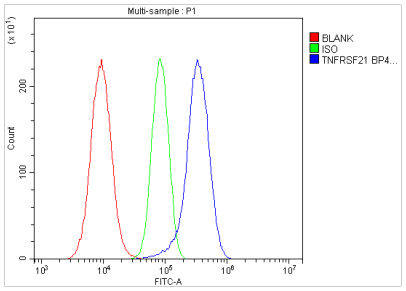

Figure 7. Flow Cytometry analysis of A549 cells using anti-DR6/TNFRSF21 antibody (A04348-2).
Overlay histogram showing A549 cells stained with A04348-2 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-DR6/TNFRSF21 Antibody (A04348-2, 1ug/1x10^6 cells) 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.

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1 Publications Citing This Product

1. PubMed ID: -, Lu Yuan,Jian Ruan,Mangling Zhang et al.TNFRSF21 participates in Streptococcus agalactiae-induced inflammatory necrosis through the NLRP3 inflammasome pathway,23 February 2021,PREPRINT (Version 1) available at Research Square [https://doi.org/10.21203/rs.3

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