

Anti-TRAF2 Antibody Picoband™

Catalog Number: PB9516

About TRAF2

TRAF2 (TNF Receptor-Associated Factor 2), also called TRAP, is a protein that in humans is encoded by the TRAF2 gene. The protein encoded by this gene is a member of the TNF receptor (TNFR) associated factor (TRAF) protein family. TRAF2 is a common signal transducer for TNFR2 and CD40 that mediates activation of NF-kappa-B. Rothe et al. (1996) identified ITRAF, which binds to TRAF1, TRAF2, and TRAF3, and that when overexpressed inhibits TRAF2-mediated NF-kappa-B activation. They proposed that ITRAF is an inhibitor of TRAF function that regulates TRAF protein activity by sequestering TRAFs in a latent state in the cytoplasm. Kanamori et al. (2002) found that mouse Traf2 interacted directly with T2bp, and they presented evidence that T2BP is involved in TNF-mediated signaling by its interaction with TRAF2.

Overview

Product Name	Anti-TRAF2 Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-TRAF2 Antibody Picoband™ catalog # PB9516. Tested in IHC, WB applications. This antibody reacts with Human.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 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	Q12933

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human TRAF2, different from the related mouse sequence by one amino acid.
Predicted Reactive Species	Hamster
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.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, By Heat</p> <p>Western blot, 0.1-0.5ug/ml, Human</p>

Anti-TRAF2 Antibody Picoband™ (PB9516) Images



Figure 1. Western blot analysis of TRAF2 using anti-TRAF2 antibody (PB9516).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours.

Lane 1: Rat Brain Tissue Lysate at 50ug,

Lane 2: Rat Testis Tissue Lysate at 50ug,

Lane 3: Mouse Brain Tissue Lysate at 50ug,

Lane 4: Human Placenta Tissue Lysate at 50ug,

Lane 5: 22RV1 Whole Cell Lysate at 40ug,

Lane 6: SMMC Whole Cell Lysate at 40ug.

After electrophoresis, proteins were transferred 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-TRAF2 antigen affinity purified polyclonal antibody (Catalog # PB9516) 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 TRAF2 at approximately 53 kDa. The expected band size for TRAF2 is at 53 kDa.

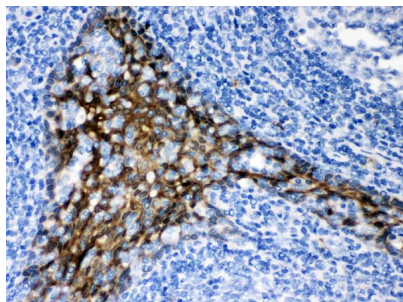


Figure 2. IHC analysis of TRAF2 using anti-TRAF2 antibody (PB9516).

TRAF2 was detected in a paraffin-embedded section of human tonsil tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution).

The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 ug/ml

rabbit anti-TRAF2 Antibody (PB9516) 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 Streptavidin-Biotin-Complex

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

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