

Anti-TNF Receptor I/TNFRSF1A Antibody Picoband™

Catalog Number: A00294-3

About TNFRSF1A

Tumor necrosis factor receptor superfamily member 1A (TNFRSF1A), also known as TNFR1, is a protein that in humans is encoded by the TNFRSF1A gene. The protein encoded by this gene is a member of the Tumor necrosis factor receptor superfamily, which also contains TNFRSF1B. The TNFR1 gene is mapped to 12pter-cen. It encodes a protein of 455 amino acids. And this receptor can activate the transcription factor NF-kappaB, mediate apoptosis, and function as a regulator of inflammation.

Overview

Product Name	Anti-TNF Receptor I/TNFRSF1A Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Rabbit IgG polyclonal antibody for TNF Receptor I detection. Tested with WB, IHC-P, IHC-F, ICC, FCM, ELISA(Cap) in Human;Mouse;Rat.
Application	ELISA, Flow Cytometry, IHC, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Storage Instructions	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquoted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P19438

Technical Details

Immunogen	E. coli-derived human TNF Receptor I recombinant protein (Position: I22-T211).
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), IHC(F) and ICC.

Cross Reactivity	No cross reactivity with other proteins.
Form	Lyophilized
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Suggested Dilutions	Western blot, 0.1-0.5µg/ml Immunohistochemistry(Paraffin-embedded Section), 0.5-1µg/ml Immunohistochemistry(Frozen Section), 0.5-1µg/ml Immunocytochemistry, 0.5-1µg/ml Flow Cytometry, 1-3µg/1x10 ⁶ cells ELISA(Cap), 1-5µg/ml For protocols please visit https://www.bosterbio.com/protocol-and-troubleshooting/

Anti-TNF Receptor I/TNFRSF1A Antibody Picoband™ (A00294-3) Images

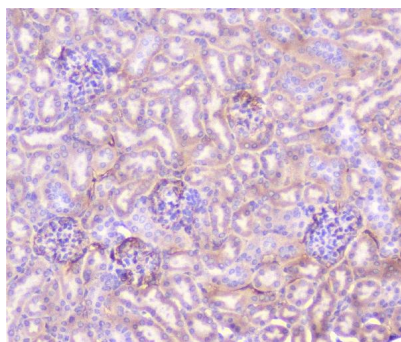


Figure 2. IHC analysis of TNF Receptor I using anti-TNF Receptor I antibody (A00294-3). TNF Receptor I was detected in paraffin-embedded section of mouse kidney tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti-TNF Receptor I Antibody (A00294-3) 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.

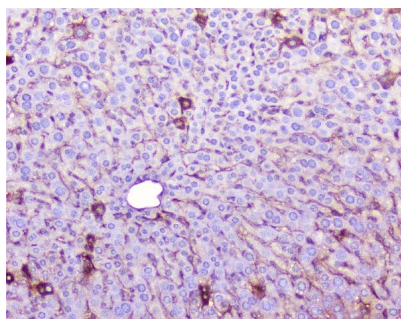
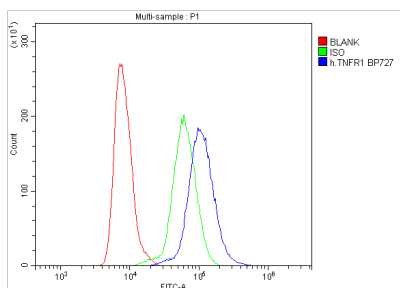


Figure 3. IHC analysis of TNF Receptor I using anti-TNF Receptor I antibody (A00294-3). TNF Receptor I was detected in paraffin-embedded section of mouse liver tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti-TNF Receptor I Antibody (A00294-3) 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.

Figure 5. Flow Cytometry analysis of U937 cells using anti-



TNF Receptor I antibody (A00294-3).

Overlay histogram showing U937 cells stained with A00294-3 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-TNF Receptor I Antibody (A00294-3, 1µg/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

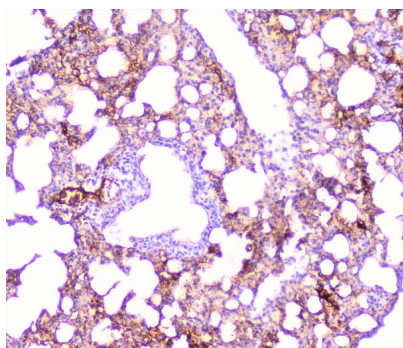


Figure 4. IHC analysis of TNF Receptor I using anti-TNF Receptor I antibody (A00294-3).

TNF Receptor I was detected in paraffin-embedded section of mouse lung tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti-TNF Receptor I Antibody (A00294-3) 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.

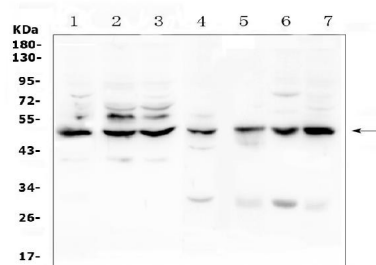


Figure 1. Western blot analysis of TNF Receptor I? using anti-TNF Receptor I? antibody (A00294-3).

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 50µg of sample under reducing conditions.

Lane 1: human Hela whole cell lysate,
Lane 2: human K562 whole cell lysate,
Lane 3: human Caco-2 whole cell lysate,
Lane 4: rat liver tissue lysates,
Lane 5: mouse small intestine tissue lysates,
Lane 6: mouse liver tissue lysates,
Lane 7: mouse HEPA1-6 whole cell lysate.

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-TNF Receptor I? antigen affinity purified polyclonal antibody (Catalog # A00294-3) at 0.5 µg/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 TNF Receptor I? at approximately 50KD. The expected band size for TNF Receptor I? is at 50KD.

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