

Anti-TNF Receptor I/TNFRSF1A Antibody

Catalog Number: PA1210

About TNFRSF1A

Tumor necrosis factor receptor 1 (TNFR1), a potent cytokine, elicits a broad spectrum of biologic responses which are mediated by binding to a cell surface receptor. Its gene is located on 12p13.2. The coding region and the 3-prime untranslated region of TNFR1 are distributed over 10 exons. There are 2 different proteins that serve as major receptors for TNF-alpha, one associated with myeloid cells and one associated with epithelial cells. Additionally, TNFR1 associates with the MADD protein through a death domain-death domain interaction. MADD provides a physical link between TNFR1 and the induction of mitogen-activated protein (MAP) kinase (e.g., ERK2) activation and arachidonic acid release. TNFR1-induced apoptosis involves 2 sequential signaling complexes. Complex I, the initial plasma membrane-bound complex, consists of TNFR1, the adaptor TRADD, the kinase RIP1, and TRAF2 and rapidly signals activation of NF-kappa-B. In a second step, TRADD and RIP1 associate with FADD and caspase-8, forming a cytoplasmic complex, complex II.

Overview

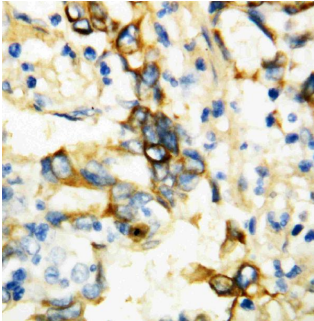
Product Name	Anti-TNF Receptor I/TNFRSF1A Antibody
Reactive Species	Human
Description	Boster Bio Anti-TNF Receptor I/TNFRSF1A Antibody catalog # PA1210. Tested in IHC, WB applications. This antibody reacts with Human.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 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	P19438

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human TNF Receptor I .
Predicted Reactive Species	Bovine
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-TNF Receptor I/TNFRSF1A Antibody (PA1210) Images



Anti-TNF Receptor I antibody, PA1210, IHC(P)
IHC(P): Human Mammary Tissue

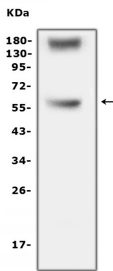


Figure 1. Western blot analysis of TNF Receptor I using anti-TNF Receptor I antibody (PA1210).

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 SW579 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-TNF Receptor I antigen affinity purified polyclonal antibody (Catalog # PA1210) 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 TNF Receptor I at approximately 50-60KD. The expected band size for TNF Receptor I is at 50KD.

5 Publications Citing This Product

1. PubMed ID: 10.1111/apm.12725, Cytokine expression associated with Helicobacter pylori and Epstein-Barr virus infection in gastric carcinogenesis
2. PubMed ID: 25267210, TRAF6 upregulation in spinal astrocytes maintains neuropathic pain by integrating TNF- α and IL-1 β signaling
3. PubMed ID: 19564935, Soluble Tumor Necrosis Factor Receptor Mediates Cell Proliferation on Lipopolysaccharide-Stimulated Cultured Human Decidual Stromal Cells

Visit bosterbio.com/anti-tnf-receptor-i-antibody-pa1210-boster.html to see all 5 publications.

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