

## Anti-TNF Receptor I/TNFRSF1A Antibody Picoband®

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

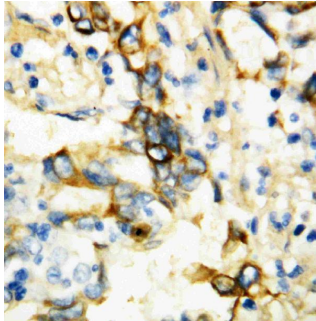
Product Name	Anti-TNF Receptor I/TNFRSF1A Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-TNF Receptor I/TNFRSF1A Antibody catalog # PA1210. Tested in IHC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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

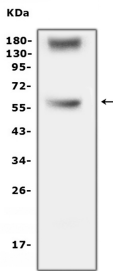
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human TNF Receptor I .
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

	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	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human Western blot, 0.1-0.5ug/ml, Human

## Anti-TNF Receptor I/TNFRSF1A Antibody Picoband® (PA1210) Images



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



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- $\alpha$  and IL-1 $\beta$  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](http://bosterbio.com/anti-tnf-receptor-i-antibody-pa1210-boster.html) to see all 5 publications.

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Anti-TNF Receptor I/TNFRSF1A Antibody

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