

## Anti-TNF Receptor II/TNFRSF1B Antibody Picoband™

Catalog Number: A01437-1

### About TNFRSF1B

Tumor necrosis factor receptor 2 (TNFR2) is one of receptors of TNF. TNF has proinflammatory and immunosuppressive properties that may segregate at the level of the 2 TNF receptors (TNFRs), TNFR1 and TNFR2. The genes for TNFR1, a 55-kDa protein, and TNFR2, a 70-kDa protein, have been mapped to human chromosomes 12 (12pter-cen) and 1 (1pter-p32), respectively. TNFR2 was induced on glomerular endothelial cells of nephritic kidneys, and TNFR2 expression on intrinsic cells, but not leukocytes, was essential for glomerulonephritis and glomerular complement deposition. TNFR1 promotes systemic immune responses and renal T cell death, while intrinsic cell TNFR2 plays a critical role in complement-dependent tissue injury. Therefore, therapeutic blockade specifically of TNFR2 may be a promising strategy in the treatment of immune-mediated glomerulonephritis.

### Overview

|                      |                                                                                                                                                                                                   |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-TNF Receptor II/TNFRSF1B Antibody Picoband™                                                                                                                                                  |
| Reactive Species     | Human, Mouse, Rat                                                                                                                                                                                 |
| Description          | Boster Bio Anti-TNF Receptor II/TNFRSF1B Antibody Picoband™ catalog # A01437-1. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, Mouse, Rat.                    |
| Application          | ELISA, Flow Cytometry, WB                                                                                                                                                                         |
| Clonality            | Polyclonal                                                                                                                                                                                        |
| Formulation          | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                         |
| Storage Instructions | 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 freezing and thawing. |
| Host                 | Rabbit                                                                                                                                                                                            |
| Uniprot ID           | P20333                                                                                                                                                                                            |

### Technical Details

|                               |                                                                                                 |
|-------------------------------|-------------------------------------------------------------------------------------------------|
| Immunogen                     | E.coli-derived human TNF Receptor II/TNFRSF1B recombinant protein (Position: L23-A189).         |
| Predicted Reactive Species    | Human                                                                                           |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot. |
| 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>Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat</p> <p>Flow Cytometry, 1-3 ug/1x10<sup>6</sup> cells, Human</p> <p>Direct ELISA, 0.1-0.5 ug/ml, Human</p> |

## Anti-TNF Receptor II/TNFRSF1B Antibody Picoband™ (A01437-1) Images

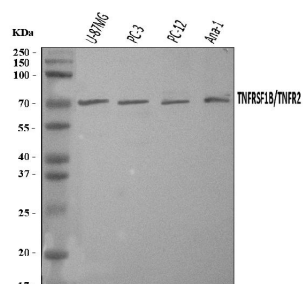


Figure 1. Western blot analysis of TNF Receptor II/TNFRSF1B using anti-TNF Receptor II/TNFRSF1B antibody (A01437-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human U-87MG whole cell lysates,

Lane 2: human PC-3 whole cell lysates,

Lane 3: rat PC-12 whole cell lysates,

Lane 4: mouse Ana-1 whole cell lysates.

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-TNF Receptor II/TNFRSF1B antigen affinity purified polyclonal antibody (Catalog # A01437-1) 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 TNF Receptor II/TNFRSF1B at approximately 75 kDa. The expected band size for TNF Receptor II/TNFRSF1B is at 75 kDa.

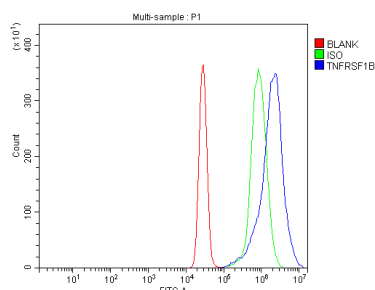


Figure 2. Flow Cytometry analysis of K562 cells using anti-TNF Receptor II/TNFRSF1B antibody (A01437-1).

Overlay histogram showing K562 cells stained with A01437-1 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-TNF Receptor II/TNFRSF1B Antibody (A01437-1, 1 ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight® 488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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