

## Anti-RANK/Tnfrsf11a Picoband® Antibody

Catalog Number: A01064-3

### About Tnfrsf11a

Receptor activator of nuclear factor kappa B (RANK), also known as TRANCE receptor or TNFRSF11A, is a member of the tumor. It is mapped to 1; 1 E2.1. The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptors can interact with various TRAF family proteins, through which this receptor induces the activation of NF-kappa B and MAPK8/JNK. This receptor and its ligand are important regulators of the interaction between T cells and dendritic cells. This receptor is also an essential mediator for osteoclast and lymph node development. Mutations at this locus have been associated with familial expansile osteolysis, autosomal recessive osteopetrosis, and Paget disease of bone. Alternatively spliced transcript variants have been described for this locus.

### Overview

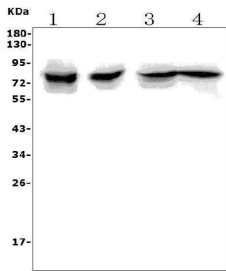
Product Name	Anti-RANK/Tnfrsf11a Picoband® Antibody
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-RANK/Tnfrsf11a Picoband® Antibody catalog # A01064-3. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody 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	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 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	O35305

### Technical Details

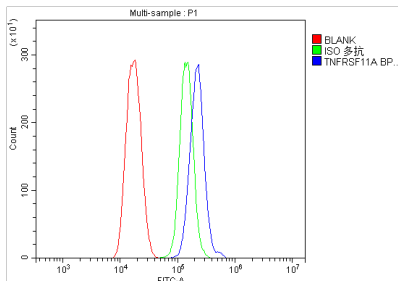
Immunogen	E.coli-derived mouse RANK/Tnfrsf11a recombinant protein (Position: Q30-R203).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized

Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5ug/ml, Mouse, Rat Flow Cytometry (Fixed), 1-3ug/1x10 <sup>6</sup> cells, Mouse, Rat ELISA, 0.1-0.5ug/ml, -

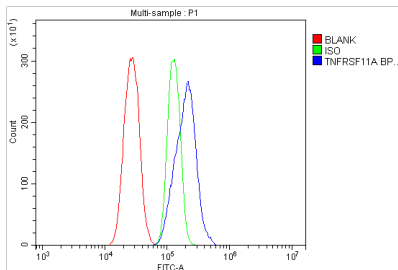
## Anti-RANK/Tnfrsf11a Picoband® Antibody (A01064-3) Images



Western blot analysis of Tnfrsf11a using anti-Tnfrsf11a antibody (A01064-3). 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 50ug of sample under reducing conditions. Lane 1: rat thymus tissue lysates, Lane 2: mouse thymus tissue lysates, Lane 3: mouse RAW264.7 whole cell lysates, Lane 4: mouse SP20 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-Tnfrsf11a antigen affinity purified polyclonal antibody (Catalog # A01064-3) 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 Tnfrsf11a at approximately 80KD. The expected band size for Tnfrsf11a is at 66KD.



Flow Cytometry analysis of HEPA1-6 cells using anti-Tnfrsf11a antibody (A01064-3). Overlay histogram showing HEPA1-6 cells stained with A01064-3 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Tnfrsf11a Antibody (A01064-3, 1ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



Flow Cytometry analysis of RH-35 cells using anti-Tnfrsf11a antibody (A01064-3). Overlay histogram showing RH-35 cells stained with A01064-3 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Tnfrsf11a Antibody (A01064-3, 1ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

### 3 Publications Citing This Product

1. PubMed ID: 10.1002/bem.22059, Effect of intervention initiation timing of pulsed electromagnetic field on ovariectomy-induced osteoporosis in rats
2. PubMed ID: 10.1002/bem.22059, Effect of intervention initiation timing of pulsed electromagnetic field on ovariectomy-induced osteoporosis in

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3. PubMed ID: 10.1002/bem.22059, Effect of intervention initiation timing of pulsed electromagnetic field on ovariectomy-induced osteoporosis in rats

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