

Anti-NPRL2 Antibody Picoband®

Catalog Number: A06286-3

About NPRL2

Nitrogen permease regulator 2-like protein (NPRL2) also known as tumor suppressor candidate 4 (TUSC4) is a protein that in humans is encoded by the NPRL2 gene. Enables GTPase activator activity. Involved in cellular response to amino acid starvation; negative regulation of TORC1 signaling; and negative regulation of kinase activity. Part of GATOR1 complex. Is active in lysosomal membrane. Implicated in familial focal epilepsy with variable foci 2.

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Overview

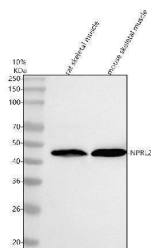
Product Name	Anti-NPRL2 Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-NPRL2 Antibody Picoband® catalog # A06286-3. Tested in WB, Flow Cytometry, ELISA applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees 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 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
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	Q8WTW4

Technical Details

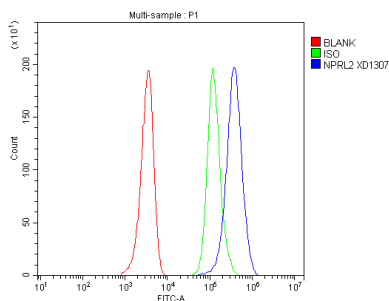
Immunogen	E.coli-derived human NPRL2 recombinant protein (Position: D90-K380). Human NPRL2 shares 98.3% amino acid (aa) sequence identity with mouse NPRL2.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

	blot.
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, 0.25-0.5 ug/ml, Mouse, Rat Flow Cytometry (Fixed), 1-3 ug/1x10⁶ cells, Human ELISA, 0.1-0.5 ug/ml Note: For flow cytometry (FCM), validated for fixed cells only. Not validated for FACS or surface flow cytometry using live cells.

Anti-NPRL2 Antibody Picoband® (A06286-3) Images



Western blot analysis of NPRL2 using anti-NPRL2 antibody (A06286-3). 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 30 ug of sample under reducing conditions. Lane 1: rat skeletal muscle tissue lysates, Lane 2: mouse skeletal muscle tissue 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-NPRL2 antigen affinity purified polyclonal antibody (A06286-3) 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 NPRL2 at approximately 48 kDa. The expected band size for NPRL2 is at 44 kDa.



Flow Cytometry analysis of HEL cells using anti-NPRL2 antibody (A06286-3). Overlay histogram showing HEL cells stained with A06286-3 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NPRL2 Antibody (A06286-3, 1 ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

Anti-NPRL2 Antibody

For Research Use Only. Not for use in diagnostic procedures.