BOSTER BIOLOGICAL TECHNOLOGY
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# 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

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| 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 Na2HPO4. |
| 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

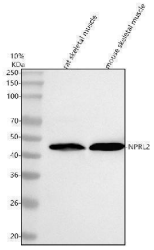
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| Immunogen | E.coli-derived human NPRL2 recombinant protein (Position: D90-K380). Human NPRL2 shares 98.3% amino acid (aa) sequence identity with mouse NPRL2. |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with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

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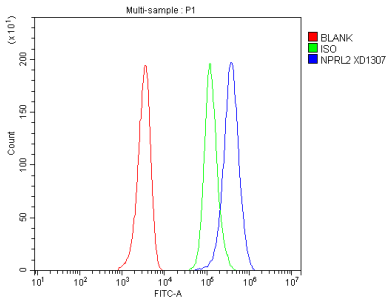
| | |
|---|---|
| | blot. |
| Form | Lyophilized |
| Concentration | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. |
| Purification | Immunogen affinity purified. |
| Suggested Dilutions | Western blot, 0.25-0.5 ug/ml, Mouse, Rat<br>Flow Cytometry (Fixed), 1-3 ug/1x$10^6$ cells, Human<br>ELISA, 0.1-0.5 ug/ml<br><br>Note: For flow cytometry (FCM), suitable for fixed cells only. Not suitable for FACS or surface flow cytometry using live cells. |

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# 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.



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