

## Anti-PRX Antibody Picoband®

Catalog Number: A01686

### About PRX

Periaxin is a protein that in humans is encoded by the PRX gene. This gene encodes a protein involved in peripheral nerve myelin upkeep. The encoded protein contains 2 PDZ domains which were named after PSD95 (post synaptic density protein), DlgA (Drosophila disc large tumor suppressor), and ZO1 (a mammalian tight junction protein). Two alternatively spliced transcript variants have been described for this gene which encode different protein isoforms and which are targeted differently in the Schwann cell. Mutations in this gene cause Charcot-Marie-Tooth neuropathy, type 4F and Dejerine-Sottas neuropathy.

### Overview

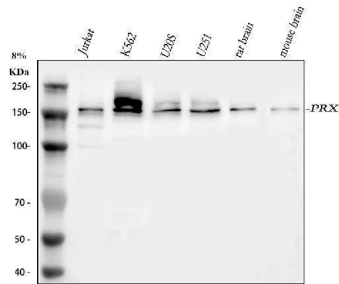
Product Name	Anti-PRX Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-PRX Antibody Picoband® catalog # A01686. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that 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 and 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .
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	Q9BXM0

### Technical Details

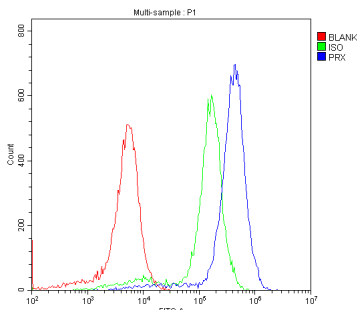
Immunogen	E. coli-derived human PRX recombinant protein (Position: M1-K91).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml Flow Cytometry(Fixed), 1-3ug/1x10 <sup>6</sup> cells ELISA, 0.1-0.5ug/ml

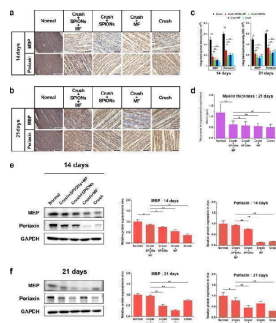
## Anti-PRX Antibody Picoband® (A01686) Images



Western blot analysis of PRX using anti-PRX antibody (A01686). 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 Jurkat whole cell lysates, Lane 2: human K562 whole cell lysates, Lane 3: human U2OS whole cell lysates, Lane 4: human U251 whole cell lysates, Lane 5: rat brain tissue lysates, Lane 6: mouse brain 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-PRX antigen affinity purified polyclonal antibody (Catalog # A01686) 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 PRX at approximately 155 kDa. The expected band size for PRX is at 148 kDa.



Flow Cytometry analysis of K562 cells using anti-PRX antibody (A01686). Overlay histogram showing K562 cells stained with A01686 (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-PRX Antibody (A01686, 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 used as a control.



SPION-mediated magnetic actuation promotes remyelination of regenerated nerve fibers. The expression of myelin-associated structural proteins (periaxin and MBP) was detected by immunohistochemistry in different experimental groups at 14 ( a ) and 21 ( b ) days after sciatic nerve crush injury. c The protein expression levels in immunohistochemical images were quantitatively analyzed to evaluate the effect of different treatments on nerve remyelination. d The myelin thickness of regenerated myelinated nerve fibers was measured 3 weeks after nerve crush injury to evaluate the effect of different treatment factors on nerve remyelination from a morphological perspective. e , f The relative protein expression of periaxin and MBP in different experimental groups was measured by WB at the above time points to validate the immunohistochemical results. Each experiment was carried

out in triplicate. The values are represented as the mean  $\pm$  SD. Scale bar = 50  $\mu$ m in panels a and b. \* P

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### Anti-PRX Antibody

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