

## Anti-P2RX4 Antibody Picoband®

Catalog Number: PB9304

### About P2RX4

Purinoceptor P2X4, also called P2X4R is a protein that in humans is encoded by the P2RX4 gene. This gene belongs to the family of purinoceptors for ATP. P2RX4 was mapped to 12q24.32 by fluorescence in situ hybridization. P2RX4 is a receptor for ATP that acts as a ligand-gated ion channel. This receptor is insensitive to the antagonists PPADS and suramin. P2X4 receptor in hyperactive microglia is necessary for tactile allodynia after nerve injury and is sufficient to produce tactile allodynia in normal animals. P2X4 receptors have been implicated in the regulation of cardiac function, ATP-mediated cell death, synaptic strengthening, and activating of the inflammasome in response to injury.

### Overview

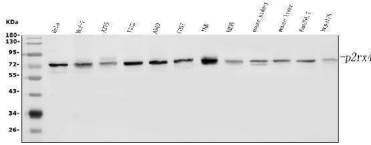
Product Name	Anti-P2RX4 Antibody Picoband®
Reactive Species	Human, Monkey, Mouse, Rat
Description	Boster Bio Anti-P2RX4 Antibody Picoband® catalog # PB9304. Tested in WB applications. This antibody reacts with Human, Monkey, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees 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	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , and 0.05 mg NaN <sub>3</sub> . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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	Q99571

### Technical Details

Immunogen	E.coli-derived human P2RX4 recombinant protein (Position: N262-Q388). Human P2RX4 shares 91% and 90% amino acid (aa) sequence identity with mouse and rat P2RX4, respectively.
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, Human, Mouse, Rat, Monkey

## Anti-P2RX4 Antibody Picoband® (PB9304) Images



Western blot analysis of P2RX4 using anti-P2RX4 antibody (PB9304). 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 30ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human MCF-7 whole cell lysates, Lane 3: human A375 whole cell lysates, Lane 4: human T-47D whole cell lysates, Lane 5: human A549 whole cell lysates, Lane 6: monkey COS-7 whole cell lysates, Lane 7: rat NRK whole cell lysates, Lane 8: rat RH-35 whole cell lysates, Lane 9: mouse kidney tissue lysates, Lane 10: mouse liver tissue lysates, Lane 11: mouse Raw264.7 whole cell lysates, Lane 12: mouse HEPA1-6 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-P2RX4 antigen affinity purified polyclonal antibody (Catalog # PB9304) 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 P2RX4 at approximately 72KD. The expected band size for P2RX4 is at 43KD.

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### Anti-P2RX4 Antibody

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