BOSTER BIOLOGICAL TECHNOLOGY
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Anti-P2X2/P2RX2 Antibody Picoband®

Catalog Number: PB9303

About P2RX2

The P2RX2 gene encodes the P2X2 receptor, which assembles as a trimer to form a ligand-gated ion channel gated by extracellular ATP. P2X2 receptors mediate a variety of cellular responses, including excitatory postsynaptic responses in sensory neurons. The product of this gene belongs to the family of purinoceptors for ATP. P2RX2 is mapped to 12q24.33. It has been found that ATP-activated P2RX2 influenced OHC electromotility, a stimulus-induced change in hair cell length that functions as an amplifier to determine hearing sensitivity and frequency selectivity. What's more, P2RX2 channels were necessary for development of the temporary threshold shift.

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Overview

Product Name	Anti-P2X2/P2RX2 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-P2X2/P2RX2 Antibody Picoband® catalog # PB9303. Tested in IHC, 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	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na2HPO4, and 0.05 mg NaN3. *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	Q9UBL9

Technical Details

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Immunogen	E.coli-derived human P2X2 recombinant protein (Position: D139-L471). Human P2X2 shares 84% amino acid (aa) sequence identity with both mouse and rat P2X2.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
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	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat

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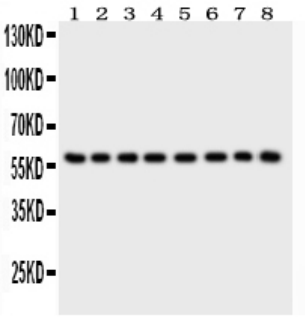
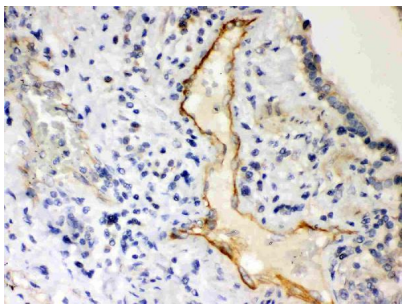
Anti-P2X2/P2RX2 Antibody Picoband® (PB9303) Images



Anti-P2X2 Picoband antibody, PB9303, Western blottingAll lanes: Anti P2X2 (PB9303) at 0.5ug/mlLane 1: Rat Brain Tissue Lysate at 50ugLane 2: Mouse Brain Tissue Lysate at 50ugLane 3: Human Placenta Tissue Lysate at 50ugLane 4: HELA Whole Cell Lysate at 40ugLane 5: SHG Whole Cell Lysate at 40ugLane 6: NEURO Whole Cell Lysate at 40ugLane 7: 22RV1 Whole Cell Lysate at 40ugLane 8: U87 Whole Cell Lysate at 40ugPredicted bind size: 52KDObserved bind size: 60KD



Anti-P2X2 Picoband antibody, PB9303, IHC(P)IHC(P): Human Lung Cancer Tissue

2 Publications Citing This Product

1. PubMed ID: 20705122, Lin J, Li G, Den X, Xu C, Liu S, Gao Y, Liu H, Zhang J, Li X, Liang S. Brain Res Bull. 2010 Oct 30;83(5):284-91. Doi: 10.1016/J.Brainresbull.2010.08.002. Epub 2010 Aug 10. Vegf And Its Receptor-2 Involved In Neuropathic Pain Transmission Mediated ...

2. PubMed ID: 25561285, Meng M, Zheng J, Yan J, Li Q, Fang Q, Li W. Cell Biochem Biophys. 2015 Jan 6. [Epub Ahead Of Print] P2X2 And P2X5 Receptors Mediate Bladder Hyperesthesia In Icc In Female Overactive Bladder.

Visit bosterbio.com/anti-p2x2-picoband-trade-antibody-pb9303-boster.html to see all 2 publications.

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