BOSTER BIOLOGICAL TECHNOLOGY
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# Anti-Muscarinic Acetylcholine Receptor 2/CHRM2 Antibody Picoband®

**Catalog Number:** PA1325-1

## About CHRM2

The muscarinic acetylcholine receptor M2, also known as the cholinergic receptor, muscarinic 2, is a muscarinic acetylcholine receptor that in humans is encoded by the CHRM2 gene. The muscarinic cholinergic receptors belong to a larger family of G protein-coupled receptors. The functional diversity of these receptors is defined by the binding of acetylcholine to these receptors and includes cellular responses such as adenylate cyclase inhibition, phosphoinositide degeneration, and potassium channel mediation. Muscarinic receptors influence many effects of acetylcholine in the central and peripheral nervous system. The muscarinic cholinergic receptor 2 is involved in mediation of bradycardia and a decrease in cardiac contractility. Multiple alternatively spliced transcript variants have been described for this gene.

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## Overview

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|---|---|
| Product Name | Anti-Muscarinic Acetylcholine Receptor 2/CHRM2 Antibody Picoband® |
| Reactive Species | Human, Mouse, Rat |
| Description | Boster Bio Anti-Muscarinic Acetylcholine Receptor 2/CHRM2 Antibody catalog # PA1325-1. 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, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.<br>*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 | P08172 |

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antibody and ELISA experts

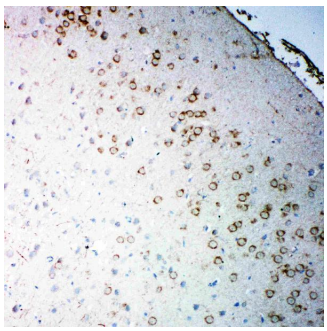
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## Technical Details

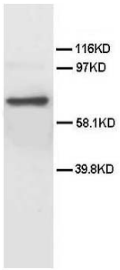
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|---|---|
| Immunogen | A synthetic peptide corresponding to a sequence at the C-terminus of human Muscarinic Acetylcholine Receptor 2, identical to the related rat and mouse sequences. |
| Recommended Detection Systems | Boster recommends Enhanced 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, Rat, Mouse<br>Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat |

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# Anti-Muscarinic Acetylcholine Receptor 2/CHRM2 Antibody Picoband® (PA1325-1) Images



Anti-Muscarinic Acetylcholine Receptor 2 antibody, PA1325-1, IHC(P)IHC(P): Rat Brain Tissue




Western blot analysis of Muscarinic Acetylcholine Receptor 2 using anti-Muscarinic Acetylcholine Receptor 2 antibody (PA1325-1). 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 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-Muscarinic Acetylcholine Receptor 2 antigen affinity purified polyclonal antibody (Catalog # PA1325-1) 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 Muscarinic Acetylcholine Receptor 2 at approximately 71 kDa. The expected band size for Muscarinic Acetylcholine Receptor 2 is at 52 kDa.

Anti-Muscarinic Acetylcholine Receptor 2/CHRM2 Antibody

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