

## Anti-Nicotinic Acetylcholine Receptor alpha 1/CHRNA1 Antibody Picoband®

Catalog Number: PA1203

### About CHRNA1

CHRNA, also termed ACHRA, is mapped on 2q24-q32. This gene encodes the alpha subunit of the muscle acetylcholine receptor, which is the main target of pathogenic autoantibodies in autoimmune myasthenia gravis. The protein-coding sequence of the human alpha subunit gene is divided into 9 exons that correspond to different structural and functional domains of the precursor molecule.

### Overview

Product Name	Anti-Nicotinic Acetylcholine Receptor alpha 1/CHRNA1 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Nicotinic Acetylcholine Receptor alpha 1/CHRNA1 Antibody catalog # PA1203. Tested in 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	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg 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	P02708

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Nicotinic Acetylcholine Receptor alpha 1, identical to the related rat sequence, different from the related mouse sequence by one amino acid.
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, Human, Rat, Mouse

## Anti-Nicotinic Acetylcholine Receptor alpha 1/CHRNA1 Antibody Picoband® (PA1203) Images



Anti-Nicotinic Acetylcholine Receptor alpha 1 antibody, PA1203, Western blottingWB: Rat Skeletal Muscle Tissue Lysate

### 1 Publications Citing This Product

1. PubMed ID: 33561489, Su Y,Ahn B,Macpherson PCD,Ranjit R,Claflin DR, Van Remmen H,Brooks SV. Transgenic expression of SOD1 specifically in neurons of Sod1 deficient mice prevents defects in muscle mitochondrial function and calcium handling. Free Radic Biol Med. 2021 Feb 6;S0891-5

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