

Anti-Nicotinic Acetylcholine Receptor Alpha 1 Antibody
Catalog # ABO10588**Specification**

Anti-Nicotinic Acetylcholine Receptor Alpha 1 Antibody - Product Information

Application	WB
Primary Accession	P02708
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Acetylcholine receptor subunit alpha(CHRNA1) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Nicotinic Acetylcholine Receptor Alpha 1 Antibody - Additional Information

Gene ID 1134

Other Names

Acetylcholine receptor subunit alpha, CHRNA1, ACHRA, CHNRA

Calculated MW

54546 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse

Subcellular Localization

Cell junction, synapse, postsynaptic cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein.

Tissue Specificity

Isoform 1 is only expressed in skeletal muscle. Isoform 2 is constitutively expressed in skeletal muscle, brain, heart, kidney, liver, lung and thymus.

Protein Name

Acetylcholine receptor subunit alpha

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of human Nicotinic Acetylcholine Receptor alpha 1(22-36aa EHETRLVAKLFKDYS), identical to the related rat sequence, different from the related mouse sequence by one amino acid.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-Nicotinic Acetylcholine Receptor Alpha 1 Antibody - Protein Information

Name CHRNA1 ([HGNC:1955](#))

Synonyms ACHRA, CHNRA

Function

[Isoform 1]: Upon acetylcholine binding, the AChR responds by an extensive change in conformation that affects all subunits and leads to opening of an ion-conducting channel across the plasma membrane.

Cellular Location

Postsynaptic cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein

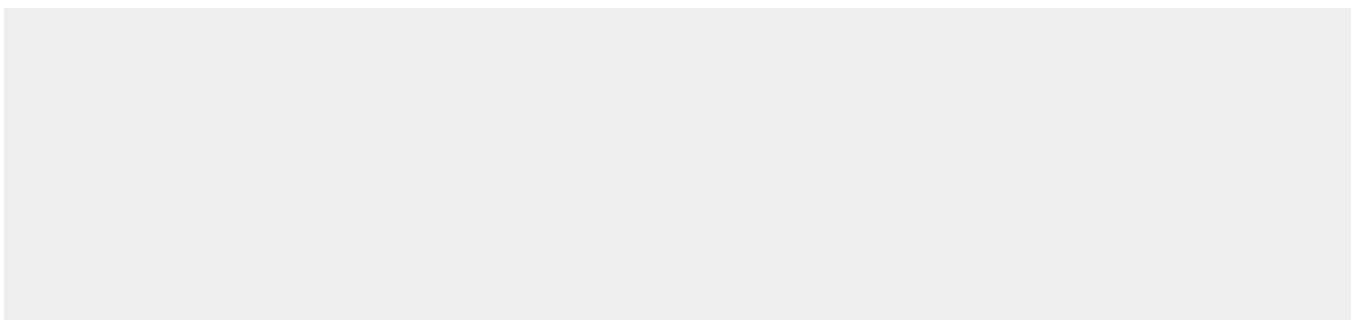
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Anti-Nicotinic Acetylcholine Receptor Alpha 1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Nicotinic Acetylcholine Receptor Alpha 1 Antibody - Images



Anti-Nicotinic Acetylcholine Receptor alpha 1 antibody, ABO10588, Western blottingWB: Rat Skeletal Muscle Tissue Lysate

Anti-Nicotinic Acetylcholine Receptor Alpha 1 Antibody - Background

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.