

Anti-muscarinic Acetylcholine Receptor 1 Antibody
Catalog # ABO11512**Specification**

Anti-muscarinic Acetylcholine Receptor 1 Antibody - Product Information

Application	WB, IHC
Primary Accession	P11229
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Muscarinic acetylcholine receptor M1(CHRM1) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution

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

Anti-muscarinic Acetylcholine Receptor 1 Antibody - Additional Information

Gene ID 1128

Other Names

Muscarinic acetylcholine receptor M1, CHRM1

Calculated MW

51421 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Rat, Human, Mouse, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization

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

Protein Name

Muscarinic acetylcholine receptor M1

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 C-terminus of human muscarinic Acetylcholine Receptor 1(303-317aa KMPMVDPEAQAPTKQ), identical to the related mouse sequence, and different from the related rat 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-muscarinic Acetylcholine Receptor 1 Antibody - Protein Information

Name CHRM1

Function

The muscarinic acetylcholine receptor mediates various cellular responses, including inhibition of adenylate cyclase, breakdown of phosphoinositides and modulation of potassium channels through the action of G proteins. Primary transducing effect is Pi turnover.

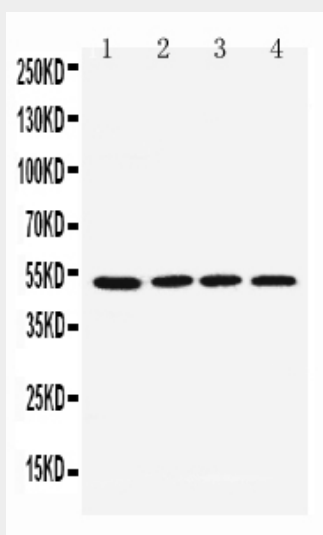
Cellular Location

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

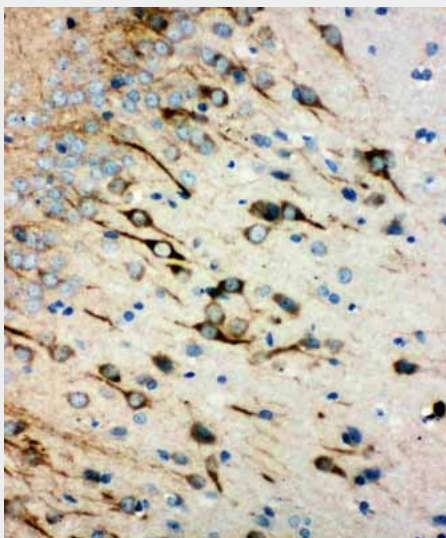
Anti-muscarinic Acetylcholine Receptor 1 Antibody - Protocols

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-muscarinic Acetylcholine Receptor 1 Antibody - Images

Anti-muscarinic Acetylcholine Receptor 1 antibody, ABO11512, Western blotting
Lane 1: Rat Brain Tissue Lysate
Lane 2: Mouse Brain Tissue Lysate
Lane 3: U87 Cell Lysate
Lane 4: SHG Cell Lysate
Lane 5: NEURO Cell Lysate
Lane 6: HELA Cell Lysate



Anti-muscarinic Acetylcholine Receptor 1 antibody, ABO11512, IHC(P)IHC(P): Rat Brain Tissue

Anti-muscarinic Acetylcholine Receptor 1 Antibody - Background

Muscarinic acetylcholine receptor M1, also known as cholinergic receptor, muscarinic 1, is a muscarinic receptor. This gene is mapped to 11q12.3. 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 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 1 is involved in mediation of vagally-induced bronchoconstriction and in the acid secretion of the gastrointestinal tract.