

**CHRM2 / M2 Antibody (Cytoplasmic Domain)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS10336****Specification**

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**CHRM2 / M2 Antibody (Cytoplasmic Domain) - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | IHC-P                  |
| Primary Accession | <a href="#">P08172</a> |
| Reactivity        | Human                  |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 52kDa KDa              |
| Dilution          | IHC-P~~N/A             |

**CHRM2 / M2 Antibody (Cytoplasmic Domain) - Additional Information****Gene ID** 1129**Other Names**

Muscarinic acetylcholine receptor M2, CHRM2

**Target/Specificity**

Human CHRM2. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

**Reconstitution & Storage**

Long term: -70°C; Short term: +4°C

**Precautions**

CHRM2 / M2 Antibody (Cytoplasmic Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

**CHRM2 / M2 Antibody (Cytoplasmic Domain) - Protein Information****Name** CHRM2**Function**

Muscarinic receptor for acetylcholine, a neurotransmitter found in the brain, neuromuscular junctions and the autonomic ganglia (PubMed:<a href="http://www.uniprot.org/citations/24256733" target="\_blank">24256733</a>, PubMed:<a href="http://www.uniprot.org/citations/3443095" target="\_blank">3443095</a>, PubMed:<a href="http://www.uniprot.org/citations/36690613" target="\_blank">36690613</a>). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors, such as adenylate cyclase (PubMed:<a href="http://www.uniprot.org/citations/36690613" target="\_blank">36690613</a>). CHRM2 is coupled to G(i)/G(o) (GNAI1 or GNAO1) G proteins and mediates signaling by inhibiting adenylate cyclase activity (PubMed:<a href="http://www.uniprot.org/citations/36690613" target="\_blank">36690613</a>).

**Cellular Location**

Cell membrane; Multi-pass membrane protein. Postsynaptic cell membrane; Multi-pass membrane protein. Note=Phosphorylation in response to agonist binding promotes receptor internalization {ECO:0000250|UniProtKB:P06199}

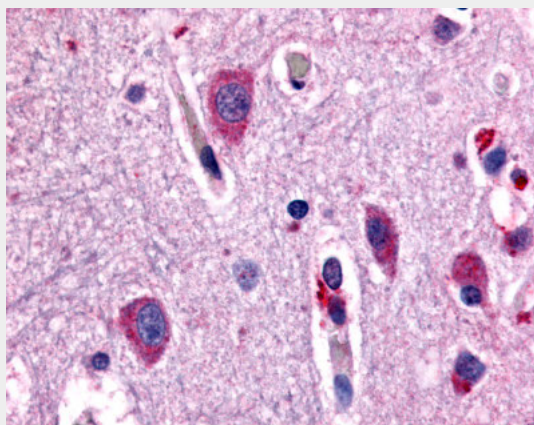
**Volume**

50 µl

**CHRM2 / M2 Antibody (Cytoplasmic Domain) - 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](#)

**CHRM2 / M2 Antibody (Cytoplasmic Domain) - Images**

Anti-CHRM2 antibody ALS10336 IHC of human brain, neurons and glia.

**CHRM2 / M2 Antibody (Cytoplasmic Domain) - Background**

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 adenylate cyclase inhibition. Signaling promotes phospholipase C activity, leading to the release of inositol trisphosphate (IP3); this then triggers calcium ion release into the cytosol.

**CHRM2 / M2 Antibody (Cytoplasmic Domain) - References**

Bonner T.I., et al. Science 237:527-532(1987).  
Peralta E.G., et al. EMBO J. 6:3923-3929(1987).  
Puhl H.L. III, et al. Submitted (APR-2002) to the EMBL/GenBank/DDBJ databases.  
Kitano T., et al. Mol. Biol. Evol. 21:936-944(2004).  
Gurevich V.V., et al. J. Biol. Chem. 270:720-731(1995).