

CHRM2 / M2 Antibody (Cytoplasmic Domain)
Rabbit Polyclonal Antibody
Catalog # ALS10338**Specification**

CHRM2 / M2 Antibody (Cytoplasmic Domain) - Product Information

Application	IHC-P
Primary Accession	P08172
Reactivity	Human, Mouse, Rabbit, Hamster, Monkey, Pig, Sheep, Horse, Bovine, Guinea Pig, Dog
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:24256733, PubMed:3443095, PubMed:36690613). 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:36690613). CHRM2 is coupled to G(i)/G(o) (GNAI1 or GNAO1) G proteins and mediates signaling by inhibiting adenylate cyclase activity (PubMed:36690613).

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}

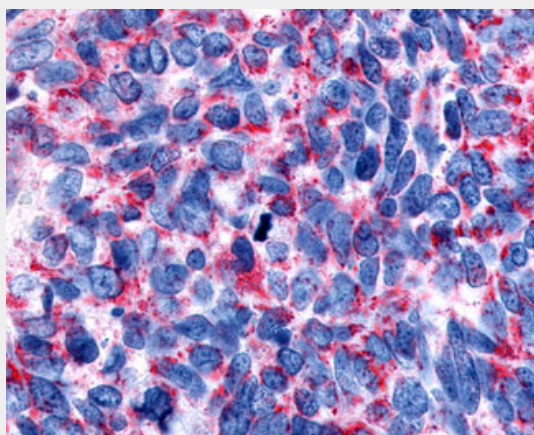
Volume

50 µl

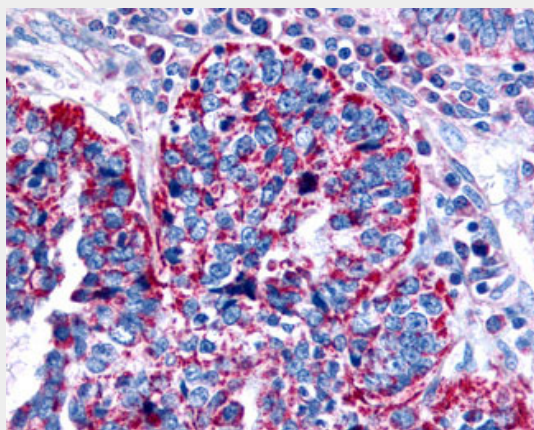
CHRM2 / M2 Antibody (Cytoplasmic Domain) - Protocols

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

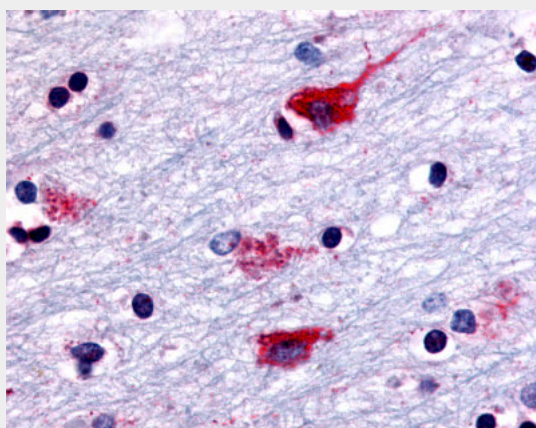
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CHRM2 / M2 Antibody (Cytoplasmic Domain) - Images

Anti-CHRM2 / M2 antibody IHC of human Lung, Small Cell Carcinoma.



Anti-CHRM2 / M2 antibody IHC of human Ovary, Carcinoma.



Anti-CHRM2 antibody ALS10338 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).