

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

**Specification**

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

Application	IHC
Primary Accession	<a href="#">P08172</a>
Reactivity	Human, Mouse, Rabbit, Hamster, Monkey, Pig, Sheep, Horse, Bovine, Guinea Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	52kDa KDa

**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**

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.

**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}

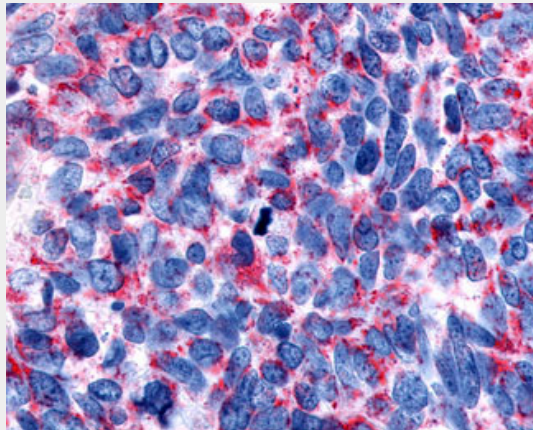
**Volume**  
50  $\mu$ l

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

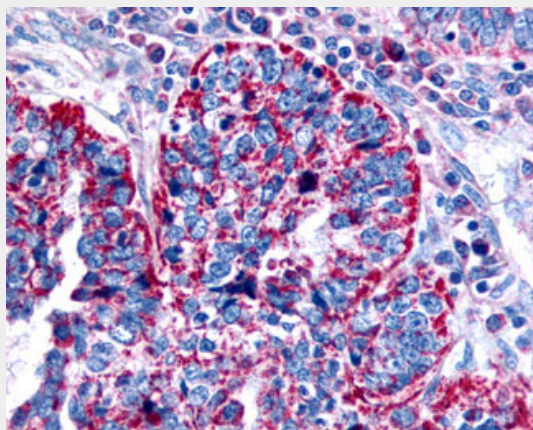
Provided below are standard protocols that you may find useful for product applications.

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

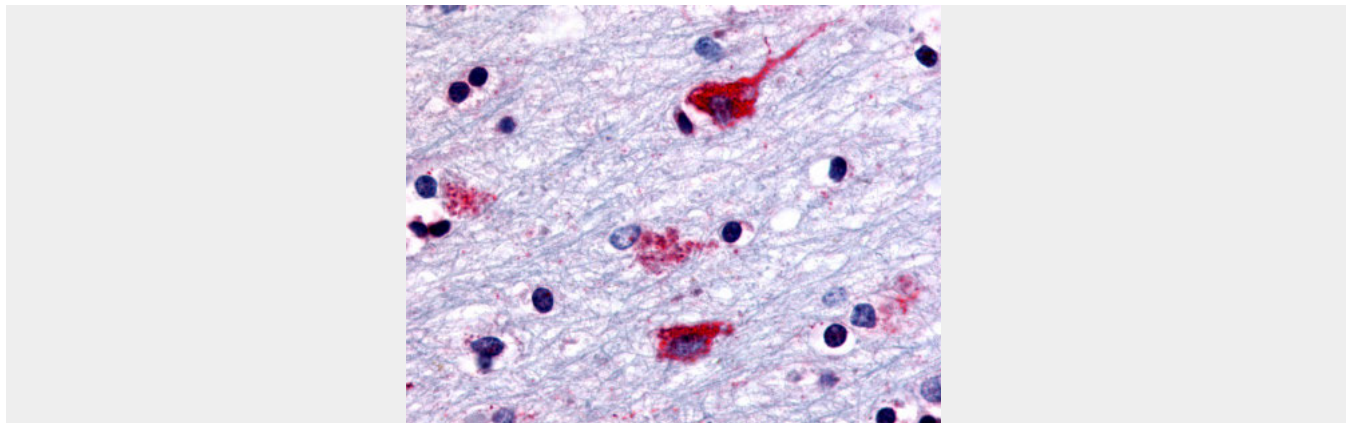
### **CHRM2 / M2 Antibody (Cytoplasmic Domain) - Images**



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 (IP<sub>3</sub>); 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).