CHRM2 Antibody
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8445b

**Specification**

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**CHRM2 Antibody - Additional Information**

- **Gene ID**: 1129
- **Other Names**: Muscarinic acetylcholine receptor M2, CHRM2

**Target/Specificity**
This antibody is generated from a mouse immunized with a recombinant protein.

**Dilution**
- IF: 1:25
- WB: 1:500
- IHC-P: 1:25
- FC: 1:25

**Format**
Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

**Storage**
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**
CHRM2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**CHRM2 Antibody - Protein Information**

- **Name**: CHRM2
- **Function**: The muscarinic acetylcholine receptor mediates various cellular responses, including inhibition of adenylate cyclase, breakdown of

Fluorescent image of SH-SY5Y cells stained with CHRM2 Antibody (Cat#AM8445b). AM8445b was diluted at 1:25 dilution. An Alexa Fluor® 488-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody (green). DAPI was used to stain the cell nuclear (blue).

Western blot analysis of lysates from SH-SY5Y cell line, human brain, mouse brain tissue(from left to right), using CHRM2 Antibody(Cat. #AM8445b). AM8445b was diluted at 1:500 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:3000 dilution was used as the secondary antibody. Lysates at 20μg per lane.
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. Cell junction, synapse, postsynaptic cell membrane; Multi-pass membrane protein

*Note=Phosphorylation in response to agonist binding promotes receptor internalization.*

{ECO:0000250|UniProtKB:P06199}

**CHRM2 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

**Immunohistochemical analysis of paraffin-embedded H. brain section using CHRM2(Cat#AM8445b ). AM8445b was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.**

**Immunohistochemical analysis of paraffin-embedded H. heart section using CHRM2 (Cat#AM8445b ). AM8445b was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.**

**Overlay histogram showing SH-SY5Y cells stained with AM8445b (green line). The cells**
were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (1:25 dilution) for 60 min at 37°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (166821) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was mouse IgG1 (1μg/1x10^6 cells) used under the same conditions. Acquisition of >10,000 events was performed.

**CHRM2 Antibody - 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.

**CHRM2 Antibody - References**