

ARG55086 anti-CHRM2 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes CHRM2
Tested Reactivity	Hu, Ms
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	1424CT461.78.60
Isotype	IgG1, kappa
Target Name	CHRM2
Species	Human
Immunogen	Human CHRM2 Recombinant protein.
Conjugation	Un-conjugated
Alternate Names	Muscarinic acetylcholine receptor M2; HM2

Application Instructions

Application table	Application	Dilution
	FACS	Assay-dependent
	ICC/IF	1:25
	IHC-P	Assay-dependent
	WB	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	SH-SY5Y	

Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links

[GeneID: 1129 Human](#)

[GeneID: 243764 Mouse](#)

[Swiss-port # P08172 Human](#)

[Swiss-port # Q9ERZ4 Mouse](#)

Gene Symbol

CHRM2

Gene Full Name

cholinergic receptor, muscarinic 2

Background

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 to these receptors 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 2 is involved in mediation of bradycardia and a decrease in cardiac contractility. Multiple alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Jul 2008]

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. [UniProt]

Research Area

Neuroscience antibody

Calculated Mw

52 kDa

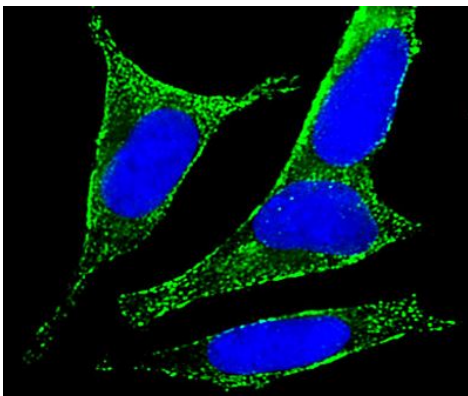
PTM

Phosphorylated in response to agonist treatment.

Cellular Localization

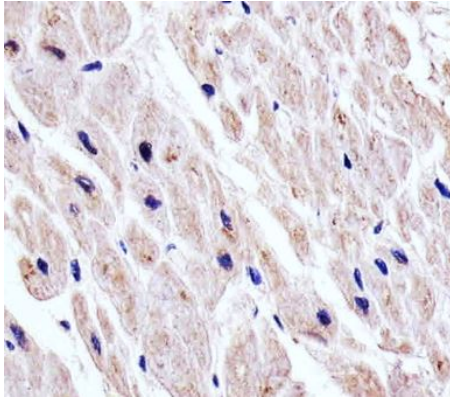
Cell membrane; Multi-pass membrane protein. Cell junction, synapse, postsynaptic cell membrane; Multi-pass membrane protein. Note=Phosphorylation in response to agonist binding promotes receptor internalization.

Images



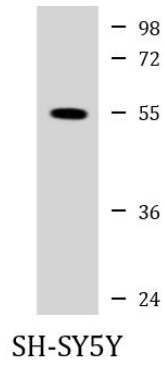
ARG55086 anti-CHRM2 antibody ICC/IF image

Immunofluorescence: SH-SY5Y cells stained with ARG55086 anti-CHRM2 antibody (green) at 1:25 dilution. DAPI (blue) for nuclear staining.



ARG55086 anti-CHRM2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human heart tissue stained with ARG55086 anti-CHRM2 antibody at 1:25 dilution.



ARG55086 anti-CHRM2 antibody WB image

Western blot: 20 µg of SH-SY5Y cell lysate stained with ARG55086 anti-CHRM2 antibody at 1:500 dilution.