ARG41846
anti-CHRM2 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes CHRM2
Tested Reactivity	Ms
Predict Reactivity	Hu, Cow, Dog, Pig
Tested Application	WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	CHRM2
Species	Human
Immunogen	Synthetic peptide around the internal region of Human CHRM2. (C-QNGDEKQNIVARK) (NP_000730.1)
Conjugation	Un-conjugated
Alternate Names	Muscarinic acetylcholine receptor M2; HM2

Application Instructions

Application table

Application	Dilution
WB	0.5 - 2 µg/ml

Application Note: WB: Recommend incubate at RT for 1h.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size: ~ 50 kDa

Properties

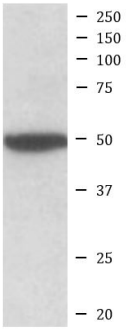
Form	Liquid
Purification	Affinity purified
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot 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

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]
Calculated Mw	52 kDa
PTM	Phosphorylated in response to agonist treatment. [UniProt]
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. [UniProt]

Images



Mouse brain

ARG41846 anti-CHRM2 antibody WB image

Western blot: 35 µg of Mouse brain lysate (in RIPA buffer) stained with ARG41846 anti-CHRM2 antibody at 2 µg/ml dilution and incubated at RT for 1 hour.