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CHRM2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14420c

Specification

CHRM2 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	P08172
Other Accession	P10980, P06199, Q9ERZ4, P41985, NP_000730.1, NP_001006628.1
Reactivity	**Human**
Predicted	**Bovine, Mouse, Pig, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**51715**
Antigen Region	**336-364**

CHRM2 Antibody (Center) - Additional Information

Gene ID 1129

Other Names
Muscarinic acetylcholine receptor M2, CHRM2

Target/Specificity
This CHRM2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 336-364 amino acids from the Central region of human CHRM2.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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 (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

CHRM2 Antibody (Center) - 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.

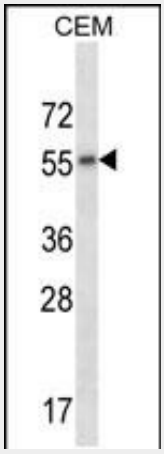
Cellular Location
Cell membrane; Multi-pass membrane protein. Postsynaptic cell membrane; Multi-pass membrane protein. Note=Phosphorylation in response to agonist binding promotes receptor internalization {ECO:0000250|UniProtKB:P06199}

CHRM2 Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CHRM2 Antibody (Center) - Images



CHRM2 Antibody (Center) (Cat. #AP14420c) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the CHRM2 antibody detected the CHRM2 protein (arrow).

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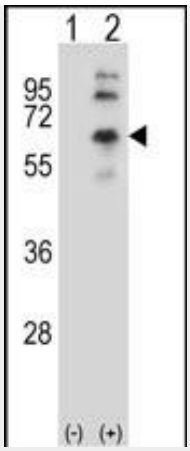

Western blot analysis of CHRM2 (arrow) using rabbit polyclonal CHRM2 Antibody (Center) (Cat. #AP14420c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the CHRM2 gene.

CHRM2 Antibody (Center) - 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.

CHRM2 Antibody (Center) - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Ruano, G., et al. Pharmacogenomics 11(7):959-971(2010)
Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Cannon, D.M., et al. Mol. Psychiatry (2010) In press :
Bosker, F.J., et al. Mol. Psychiatry (2010) In press :