

# Product datasheet

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# ARG41861 anti-CHRM2 antibody

Package: 100 μl Store at: -20°C

## **Summary**

Product Description Rabbit Polyclonal antibody recognizes CHRM2

Tested Reactivity Hu

Tested Application WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name CHRM2
Species Human

Immunogen Recombinant fusion protein corresponding to aa. 208-388 of Human CHRM2. (NP\_001006629.1)

Conjugation Un-conjugated

Alternate Names Muscarinic acetylcholine receptor M2; HM2

# **Application Instructions**

Application table	Application	Dilution
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HepG2	
Observed Size	~ 50 kDa	

### **Properties**

Form Liquid

Purification Affinity purified.

Buffer PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

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. 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

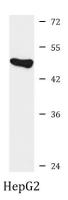
PTM Phosphorylated in response to agonist treatment. [UniProt]

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**



#### ARG41861 anti-CHRM2 antibody WB image

Western blot: 25  $\mu g$  of HepG2 cell lysate stained with ARG41861 anti-CHRM2 antibody at 1:1000 dilution.