

Datasheet for ABIN1048438

**anti-Muscarinic Acetylcholine Receptor M2 antibody  
(Cytoplasmic Domain)**[Go to Product page](#)**2** Images

## Overview

Quantity:	50 µg
Target:	Muscarinic Acetylcholine Receptor M2 (CHRM2)
Binding Specificity:	Cytoplasmic Domain
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Muscarinic Acetylcholine Receptor M2 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Brand:	IHC-plus™
Immunogen:	Synthetic 19 amino acid peptide from 3rd cytoplasmic domain of human CHRM2. Percent identity with other species by BLAST analysis: Human, Chimpanzee, Gorilla, Orangutan, Gibbon (100%), Marmoset, Rat, Dog, Hamster, Elephant, Pig (95%), Mouse, Sheep, Bat, Bovine, Panda, Rabbit, Opossum (89%), Guinea pig (84%).  Type of Immunogen: Synthetic peptide
Specificity:	Human CHRM2. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Predicted Reactivity:	Percent identity with other species by BLAST analysis: Human, Chimpanzee, Gorilla, Orangutan, Gibbon (100%) Marmoset, Rat, Dog, Hamster, Elephant, Pig (95%) Mouse, Sheep, Bat, Bovine,

## Product Details

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Panda, Rabbit, Opossum (89%) Guinea pig (84%).

Purification: Immunoaffinity purified

## Target Details

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Target: Muscarinic Acetylcholine Receptor M2 (CHRM2)

Alternative Name: CHRM2 / M2 ([CHRM2 Products](#))

Background: Name/Gene ID: CHRM2  
Subfamily: Acetylcholine  
Family: GPCR

Synonyms: CHRM2, 7TM receptor, HM2, M2 muscarinic receptor, M2-mAChR, Muscarinic receptor M2, Muscarinic M2 receptor

Gene ID: 1129

## Application Details

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Application Notes: Approved: IHC, IHC-P (4 - 8 µg/mL)

Comment: Target Species of Antibody: Human

Assay Procedure: **The IHC-pro Immunohistochemistry Protocol**

### Tissue Preparation

Formalin fixation and embedding in paraffin wax

### Tissue Sectioning

Make 4-µm sections and place on pre-cleaned and charged microscope slides.

Heat in a tissue-drying oven for 45 minutes at 60°C

Deparaffinization

Wash slides in 3 changes of xylene – 5 minutes each at room temperature.

### Rehydration

Wash slides in 3 changes of 100% alcohol – 3 minutes each at room temperature.

Wash slides in 2 changes of 95% alcohol – 3 minutes each at room temperature.

Wash slides in 1 change of 80% alcohol – 3 minutes at room temperature.

Rinse slides in gentle running distilled water – 5 minutes at room temperature.

### Antigen retrieval

Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes

Remove from heat and let stand at room temperature in buffer - 20 minutes

Rinse in 1X TBS with Tween (TBST) – 1 minute at room temperature.

### Immunostaining

Do not allow tissues to dry at any time during the staining procedure.

Apply a universal protein block – 20 minutes at room temperature.

Drain protein block from slides, apply diluted primary antibody – 45 minutes at room temperature.

Rinse slides in 1X TBST - 1 minute at room temperature.

Apply a biotinylated secondary antibody (specific to the host of the primary antibody) - 30 minutes at room temperature.

Rinse slides 1X TBST – 1 minute at room temperature.

Apply alkaline phosphatase streptavidin – 30 minutes at room temperature.

Rinse slides in 1X TBST - 1 minute at room temperature.

Apply alkaline phosphatase chromogen substrate – 30 minutes at room temperature.

Wash slides in distilled water – 1 minute at room temperature.

### Dehydrate

This method should only be used if the chromogen substrate is alcohol insoluble.

Wash slides in 2 changes of 80% alcohol – 1 minute each at room temperature.

Wash slides in 2 changes of 95% alcohol – 1 minute each at room temperature.

Wash slides in 3 changes of 100% alcohol – 1 minute each at room temperature.

Wash slides in 3 changes of xylene – 1 minute each at room temperature.

Apply coverslip

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Restrictions: For Research Use only

### Handling

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Format: Liquid

Concentration: Lot specific

Buffer: PBS, less than 0.1 % sodium azide.

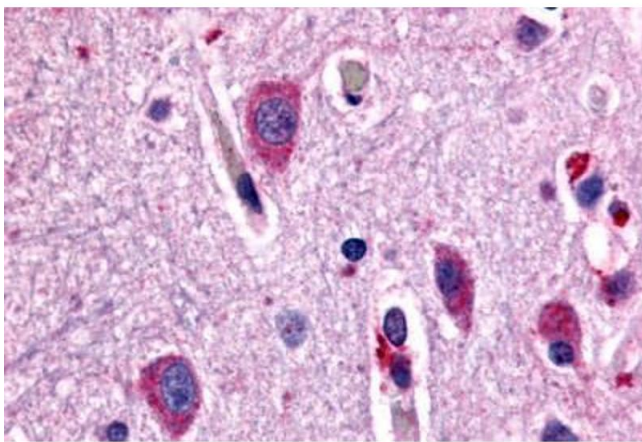
Preservative: Sodium azide

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## Handling

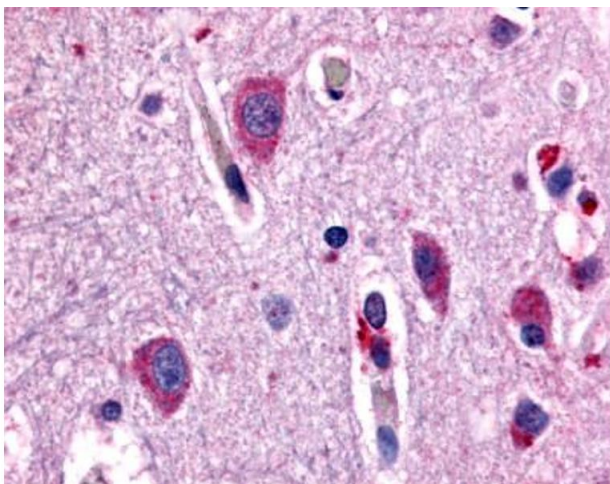
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for up to 1 month. Avoid freeze-thaw cycles.
Expiry Date:	12 months

## Images



### Immunohistochemistry

**Image 1.** Anti-CHRM2 antibody ABIN1048438 IHC staining of human brain, neurons and glia. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



### Immunohistochemistry

**Image 2.** Anti-CHRM2 antibody IHC of human brain, neurons and glia. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.