

Datasheet for ABIN1049046  
**anti-MC4R antibody (N-Term)**

## 3 Images

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## Overview

Quantity:	50 µg
Target:	MC4R
Binding Specificity:	N-Term
Reactivity:	Human, Monkey, Horse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MC4R antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

## Product Details

Brand:	IHC-plus™
Immunogen:	Synthetic 17 amino acid peptide from N-terminal extracellular domain of human MC4 Receptor. Percent identity with other species by BLAST analysis: Human, Chimpanzee, Gorilla, Orangutan, Gibbon, Baboon, Monkey, Marmoset, Tamarin, Horse (100%), Panda, Guinea pig (94%), Mouse, Rat, Elephant, Pig (88%), Bat, Dog, Hamster (82%).  Type of Immunogen: Synthetic peptide
Specificity:	Human MC4 Receptor. 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,

## Product Details

Gibbon, Baboon, Monkey, Marmoset, Tamarin, Horse (100%) Panda, Guinea pig (94%) Mouse, Rat, Elephant, Pig (88%) Bat, Dog, Hamster (82%).

Purification: Immunoaffinity purified

## Target Details

Target: MC4R

Alternative Name: MC4R / Melanocortin 4 Receptor ([MC4R Products](#))

Background: Name/Gene ID: MC4R  
Subfamily: Melanocortin  
Family: GPCR

Synonyms: MC4R, Melanocortin receptor 4, MC4-R, MC4, MC4 receptor, Melanocortin 4 receptor

Gene ID: 4160

Pathways: [Hormone Transport](#), [cAMP Metabolic Process](#), [Feeding Behaviour](#)

## Application Details

Application Notes: Approved: ICC (7.5 - 10 µg/mL), 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
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### Handling

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Format:	Liquid
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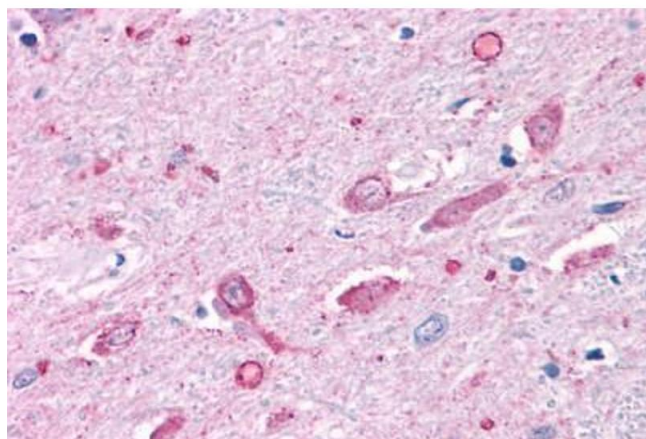
Concentration:	Lot specific
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## Handling

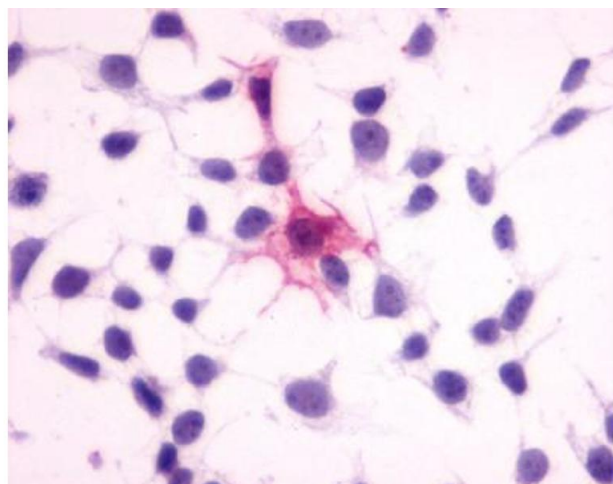
Buffer:	PBS, less than 0.1 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for up to 1 month. Avoid freeze-thaw cycles.
Expiry Date:	12 months

## Images



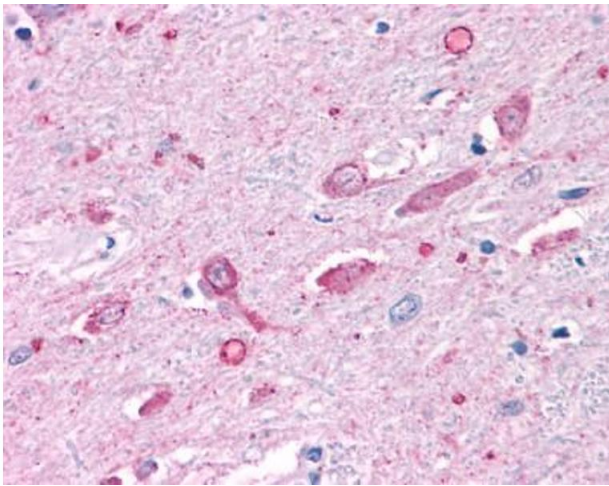
### Immunohistochemistry

**Image 1.** Anti-MC4 Receptor antibody ABIN1049046 IHC staining of human brain. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



### Immunocytochemistry

**Image 2.** Anti-MC4 Receptor antibody immunocytochemistry (ICC) staining of HEK293 human embryonic kidney cells transfected with MC4 Receptor.



### Immunohistochemistry

**Image 3.** Anti-MC4 Receptor antibody IHC of human brain. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.