

Datasheet for ABIN1049044

**anti-MC1 Receptor antibody (Cytoplasmic Domain)****2** Images[Go to Product page](#)

## Overview

Quantity:	50 µg
Target:	MC1 Receptor (MC1R)
Binding Specificity:	Cytoplasmic Domain
Reactivity:	Human, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MC1 Receptor antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Brand:	IHC-plus™
Immunogen:	<p>Synthetic 16 amino acid peptide from 3rd cytoplasmic domain of human MC1 Receptor.</p> <p>Percent identity with other species by BLAST analysis: Human, Chimpanzee, Gorilla, Orangutan, Gibbon, Monkey (100%), Baboon, Cat, Panda (94%).</p> <p>Type of Immunogen: Synthetic peptide</p>
Specificity:	Human MC1 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, Gibbon, Monkey (100%) Baboon, Cat, Panda (94%).
Purification:	Immunoaffinity purified

## Target Details

Target:	MC1 Receptor (MC1R)
Alternative Name:	MC1R ( <a href="#">MC1R Products</a> )
Background:	Name/Gene ID: MC1R Subfamily: Melanocortin Family: GPCR  Synonyms: MC1R, CMM5, MC1 receptor, MC1-R, MSHR, Melanocortin receptor 1, Melanotropin receptor, Melanocortin 1 receptor, MSH-R, SHEP2
Gene ID:	4157
Pathways:	<a href="#">cAMP Metabolic Process</a> , <a href="#">Feeding Behaviour</a>

## Application Details

Application Notes:	Approved: IHC, IHC-P (2.5 - 5 µg/mL)
Comment:	Target Species of Antibody: Human
Assay Procedure:	<b>The IHC-pro Immunohistochemistry Protocol</b>

### 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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Buffer:	PBS, less than 0.1 % sodium azide.
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Preservative:	Sodium azide
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Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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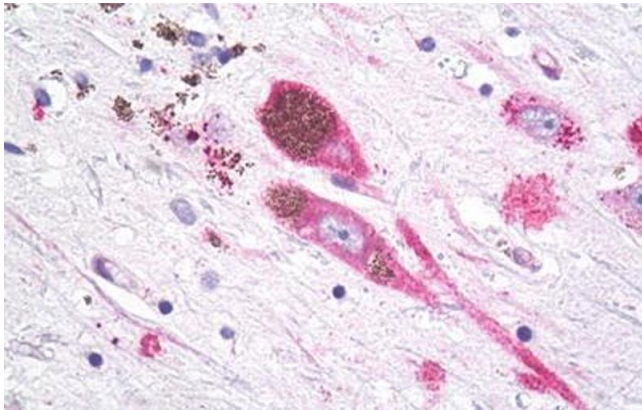
## Handling

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.

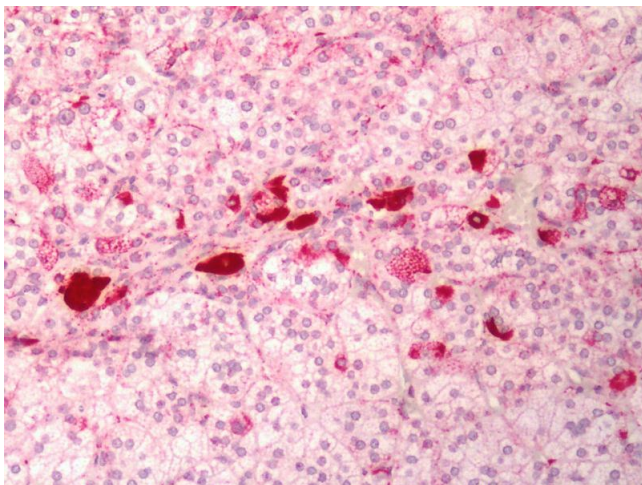
Expiry Date: 12 months

## Images



### Immunohistochemistry

**Image 1.** Anti-MC1R antibody IHC staining of brain, substantia nigra, neurons. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody ABIN1049044 dilution 41460 ug/ml.



### Immunohistochemistry (Paraffin-embedded Sections)

**Image 2.** Human Adrenal: Formalin-Fixed, Paraffin-Embedded (FFPE)