

Datasheet for ABIN1049047
anti-MC4R antibody (Cytoplasmic Domain)[Go to Product page](#)

2 Images

Overview

| | |
|----------------------|---|
| Quantity: | 50 µg |
| Target: | MC4R |
| Binding Specificity: | Cytoplasmic Domain |
| Reactivity: | Human, Sheep, Rabbit, Monkey |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| 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 MC4 Receptor.</p> <p>Percent identity with other species by BLAST analysis: Human, Chimpanzee, Gorilla, Orangutan, Gibbon, Baboon, Monkey, Marmoset, Tamarin, Sheep, Rabbit (100%), Rat, Bat, Dog, Hamster, Elephant, Panda, Horse, Pig, Opossum, Guinea pig (94%), Mouse, Bovine, Zebu, Chicken (88%), Platypus (81%).</p> <p>Type of Immunogen: Synthetic peptide</p> |
| 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, Gibbon, Baboon, Monkey, Marmoset, Tamarin, Sheep, Rabbit (100%) Rat, Bat, Dog, Hamster, Elephant, Panda, Horse, Pig, Opossum, Guinea pig (94%) Mouse, Bovine, Zebu, Chicken (88%) |

Product Details

Platypus (81%).

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: IHC, IHC-P (2.5 - 5 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

| | |
|---------------|-----------------------|
| Restrictions: | For Research Use only |
|---------------|-----------------------|

Handling

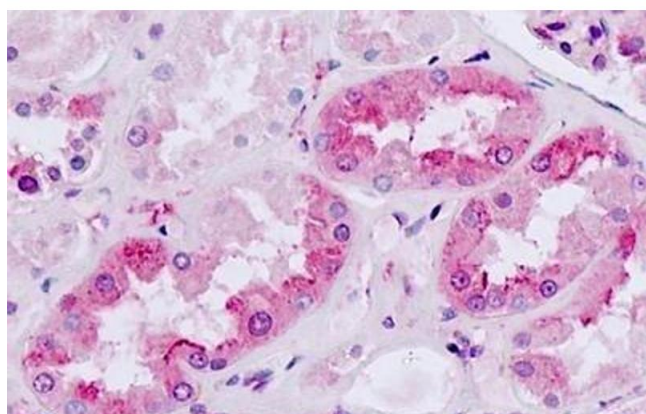
| | |
|---------|--------|
| Format: | Liquid |
|---------|--------|

| | |
|----------------|--------------|
| Concentration: | Lot specific |
|----------------|--------------|

Handling

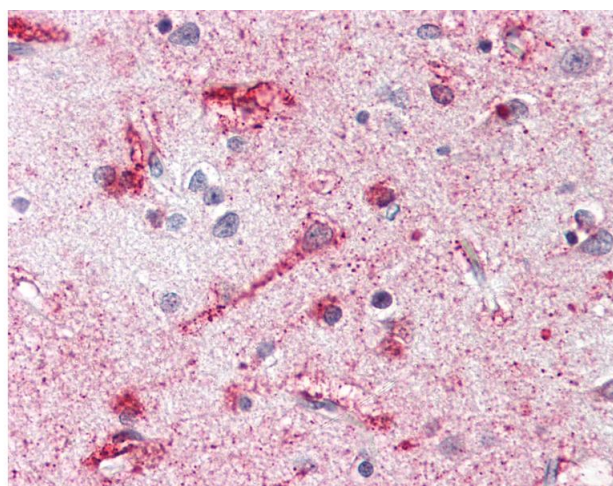
| | |
|--------------------|---|
| Buffer: | PBS, less than 0.1 % sodium azide. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C, -20 °C |
| Storage Comment: | 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. Human, Kidney: Formalin-Fixed Paraffin-Embedded (FFPE)



Immunohistochemistry

Image 2. Anti-MC4R / Melanocortin 4 Receptor antibody IHC of human brain neurons and glia. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.