

MC4 Receptor Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10724**Specification**

MC4 Receptor Antibody - Product Information

Application	WB
Primary Accession	P56450
Other Accession	NP_058673
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	36959

MC4 Receptor Antibody - Additional Information**Gene ID** 17202

Positive Control	3T3 cell lysate
Application & Usage	Western blot analysis (0.5-4 µg/ml). However, the optimal conditions should be determined individually. 3T3 cell lysate can be used as a positive control.

Other Names

melanocortin receptor 4, melanocortin 4 receptor, melanocortin-4 receptor

Target/Specificity

MC4 Receptor

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.5 mg/ml) affinity purified rabbit anti-MC4 Receptor polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

MC4 Receptor Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

MC4 Receptor Antibody - Protein Information

Name Mc4r

Function

Receptor specific to the heptapeptide core common to adrenocorticotrophic hormone and alpha-, beta-, and gamma-MSH. Plays a central role in energy homeostasis and somatic growth. This receptor is mediated by G proteins that stimulate adenylate cyclase (cAMP).

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:P32245}; Multi-pass membrane protein

MC4 Receptor Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

MC4 Receptor Antibody - Images

MC4 Receptor Antibody - Background

MC4R (Melanocortin-4 receptor) belongs to the GPCR superfamily that is responsible for multiple signal transduction pathway which includes the cAMP and MAPK signaling pathways. Expression of MC4R has been reported in brain. From genetic studies of mice and humans, it was established that MC4 receptor plays a critical role in appetite regulation. Mutation in the MC4R gene is associated with obesity in humans.