

MC4R Antibody (N-Term)
Peptide-affinity purified goat antibody
Catalog # AF3995a**Specification**

MC4R Antibody (N-Term) - Product Information

Application	E
Primary Accession	P32245
Other Accession	NP_005903.2 , 4160
Predicted	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	36943

MC4R Antibody (N-Term) - Additional Information**Gene ID** 4160**Other Names**

Melanocortin receptor 4, MC4-R, MC4R

Dilution

E~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

MC4R Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

MC4R Antibody (N-Term) - Protein Information**Name** MC4R**Function**

Hormone receptor that acts as a key component of the leptin- melanocortin pathway at the intersection of homeostatic maintenance of energetic state (PubMed:32327598, PubMed:33858992). Plays a role in regulating food intake: activation by a stimulating hormone such as anorexigenic

alpha-melanocyte stimulating hormone (alpha-MSH) inhibits appetite, whereas binding to a natural antagonist like Agouti-related protein/AGRP promotes appetite. G-protein-coupled receptor that activates conventional Galphas signaling leading to induction of anorexogenic signaling in the hypothalamus to result in negative energy balance (PubMed:33858992). Regulates the firing activity of neurons from the hypothalamus by alpha-MSH and AGRP independently of Galphas signaling by ligand-induced coupling of closure of inwardly rectifying potassium channel KCNJ13 (By similarity). In intestinal epithelial cells, plays a role in the inhibition of hepatic glucose production via nesfatin-1/NUCB2 leading to increased cyclic adenosine monophosphate (cAMP) levels and glucagon-like peptide 1 (GLP-1) secretion in the intestinal epithelium (PubMed:39562740).

Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

Brain, placental, and gut tissues.

MC4R Antibody (N-Term) - 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](#)

MC4R Antibody (N-Term) - Images**MC4R Antibody (N-Term) - Background**

The immunizing peptide represents extracellular part of the protein

MC4R Antibody (N-Term) - References

Constitutive cholesterol-dependent endocytosis of melanocortin-4 receptor (MC4R) is essential to maintain receptor responsiveness to α -melanocyte-stimulating hormone (α -MSH). McDaniel FK, Molden BM, Mohammad S, Baldini G, McPike L, Narducci P, Granell S, Baldini G. The Journal of biological chemistry 2012 Jun 28; 287 (26): 21873-90. PMID: 22544740