BACKGROUND
Melanin-concentrating hormone (MCH) is a 19 amino acid cyclic neuropeptide which is mainly expressed in the hypothalamus. MCH modulates feeding behavior, aggression, anxiety, arousal and reproductive function in mammals by controlling the release of luteinizing hormone (LH). The melanin-concentrating hormone receptor (MCHR, also designated SLC-1) is a glycosylated G protein-coupled receptor. MCHR mediates the effects of MCH through Gαi and/or Gαq signaling and is expressed in several regions of the brain, including the cerebral cortex, amygdala, thalamus and hypothalamus. MCH and MCHR have also been implicated in stimulating leptin expression and secretion in adipocytes, which suggests that the melanin-concentrating hormone and its receptor may be potential targets for modulating obesity.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: MCHR1 (human) mapping to 22q13.2; Mchr1 (mouse) mapping to 15 E1.

SOURCE
MCH-1R (C-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of MCH-1R of human origin.

PRODUCT
Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-5534 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS
MCH-1R (C-17) is recommended for detection of MCH-1R of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:300-1:3000).

MCH-1R (C-17) is also recommended for detection of MCH-1R in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for MCH-1R siRNA (h): sc-42017, MCH-1R siRNA (m): sc-42018, MCH-1R shRNA Plasmid (h): sc-42018-SH, MCH-1R shRNA Plasmid (m): sc-42018-SH, MCH-1R shRNA (h) Lentiviral Particles: sc-42017-V and MCH-1R shRNA (m) Lentiviral Particles: sc-42018-V.

Molecular Weight of MCH-1R: 53 kDa.

STORAGE
Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

DATA

SELECT PRODUCT CITATIONS

RESEARCH USE
For research use only, not for use in diagnostic procedures.

PROTOCOLS
See our web site at www.scbt.com or our catalog for detailed protocols and support products.