

MC5-R Polyclonal Antibody
Catalog # AP70859**Specification**

MC5-R Polyclonal Antibody - Product Information

Application	WB, IF
Primary Accession	P33032
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

MC5-R Polyclonal Antibody - Additional Information**Gene ID** 4161**Other Names**

MC5R; Melanocortin receptor 5; MC5-R; MC-2

Dilution

WB~~Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/40000. Not yet tested in other applications.

IF~~1:50~200

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

MC5-R Polyclonal Antibody - Protein Information**Name** MC5R ([HGNC:6933](#))**Function**

G protein-coupled receptor for melanocyte-stimulating hormones (alpha- beta- and gamma-MSH) and corticotropin/ACTH, which are peptide products of the POMC precursor (PubMed:37524700, PubMed:8396929). Upon activation, couples to G(s) protein, stimulating adenylate cyclase and the cAMP-dependent signaling pathway (PubMed:37524700). Also activates ERK1/2 via a PI3K-dependent signaling mechanism (PubMed:19428994). Order of potency of natural melanocortins in receptor activation is alpha-MSH > ACTH > beta-MSH > gamma-MSH (PubMed:8396929). Plays a key role in immune response, and is essential for temperature regulation and exocrine gland function (By similarity).

Cellular Location

Cell membrane; Multi-pass membrane protein.

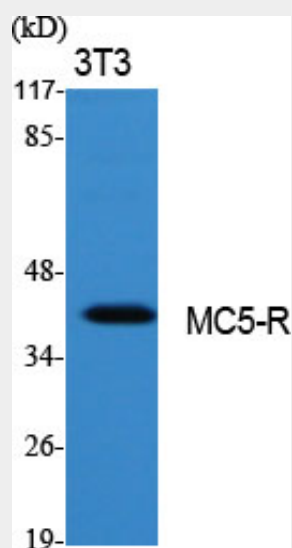
Tissue Location

Expressed in the brain but not in the melanoma cells

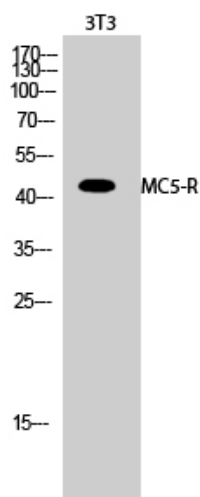
MC5-R Polyclonal Antibody - Protocols

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](#)

MC5-R Polyclonal Antibody - Images

Western Blot analysis of various cells using MC5-R Polyclonal Antibody



Western Blot analysis of 3T3 cells using MC5-R Polyclonal Antibody

MC5-R Polyclonal Antibody - Background

Receptor for MSH (alpha, beta and gamma) and ACTH. The activity of this receptor is mediated by G proteins which activate adenylate cyclase. This receptor is a possible mediator of the immunomodulation properties of melanocortins.