

MC5R / MC5 Receptor Antibody (Extracellular Domain)
Rabbit Polyclonal Antibody
Catalog # ALS10246**Specification**

MC5R / MC5 Receptor Antibody (Extracellular Domain) - Product Information

Application	IHC-P
Primary Accession	P33032
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37kDa KDa
Dilution	IHC-P ~ ~ N/A

MC5R / MC5 Receptor Antibody (Extracellular Domain) - Additional Information**Gene ID** 4161**Other Names**

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

Target/Specificity

Human MC5 Receptor. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

MC5R / MC5 Receptor Antibody (Extracellular Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

MC5R / MC5 Receptor Antibody (Extracellular Domain) - 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

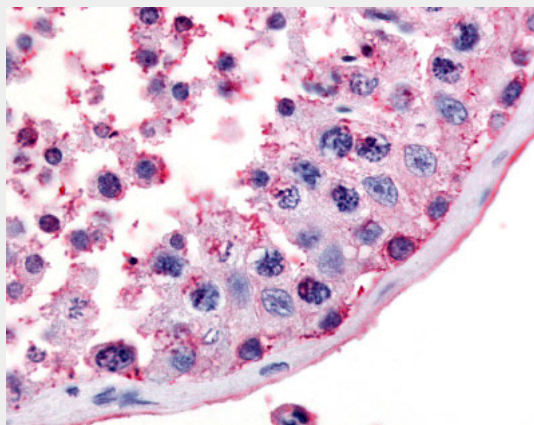
Volume

50 μ l

MC5R / MC5 Receptor Antibody (Extracellular Domain) - 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](#)

MC5R / MC5 Receptor Antibody (Extracellular Domain) - Images

Anti-MC5 Receptor antibody ALS10246 IHC of human testis, spermatogenic series.

MC5R / MC5 Receptor Antibody (Extracellular Domain) - 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.

MC5R / MC5 Receptor Antibody (Extracellular Domain) - References

Chhajlani V., et al. Biochem. Biophys. Res. Commun. 195:866-873(1993).
Griffon N., et al. Biochem. Biophys. Res. Commun. 200:1007-1014(1994).
Fathi Z., et al. Neurochem. Res. 20:107-113(1995).
Kopatz S.A., et al. Submitted (APR-2003) to the EMBL/GenBank/DBJ databases.

Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.