

# MC5R / MC5 Receptor Antibody (N-Terminus)

Rabbit Polyclonal Antibody

Catalog # ALS10245

## Product Information

---

<b>Application</b>	IHC-P
<b>Primary Accession</b>	<a href="#">P33032</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	36601
<b>Dilution</b>	IHC-P (7.6-8 µg/ml)
<b>Concentration (mg/ml)</b>	1 mg/ml

## Additional Information

---

<b>Gene ID</b>	4161
<b>Other Names</b>	Melanocortin receptor 5, MC5-R, MC-2, MC5R
<b>Target/Specificity</b>	Human MC5 Receptor. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
<b>Reconstitution &amp; Storage</b>	Long term: -70°C; Short term: +4°C
<b>Precautions</b>	MC5R / MC5 Receptor Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

---

<b>Name</b>	MC5R ( <a href="#">HGNC:6933</a> )
<b>Function</b>	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: <a href="#">37524700</a> , PubMed: <a href="#">8396929</a> ). Upon activation, couples to G(s) protein, stimulating adenylate cyclase and the cAMP-dependent signaling pathway (PubMed: <a href="#">37524700</a> ). Also activates ERK1/2 via a PI3K-dependent signaling mechanism (PubMed: <a href="#">19428994</a> ). Order of potency of natural melanocortins in receptor activation is alpha-MSH > ACTH > beta-MSH > gamma-MSH (PubMed: <a href="#">8396929</a> ). Plays a key role in immune response, and is essential for temperature regulation and exocrine gland function (By similarity).
<b>Cellular Location</b>	Cell membrane; Multi-pass membrane protein.
<b>Tissue Location</b>	Expressed in the brain but not in the melanoma cells

## 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.

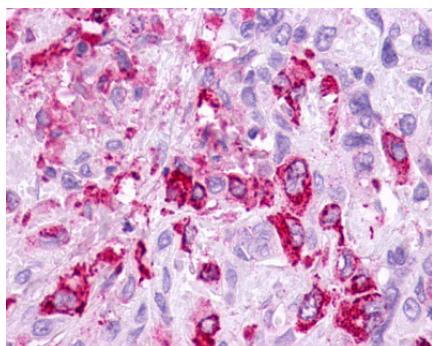
## References

---

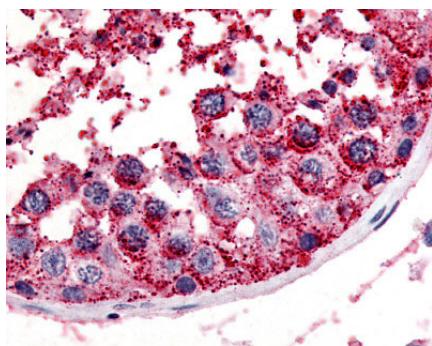
- Chhajlani V.,et al.Biochem. Biophys. Res. Commun. 195:866-873(1993).  
Griffon N.,et al.Biochem. Biophys. Res. Commun. 200:1007-1014(1994).  
Fathi Z.,et al.Neurochem. Res. 20:107-113(1995).  
Kopatz S.A.,et al.Submitted (APR-2003) to the EMBL/GenBank/DDBJ databases.  
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

## Images

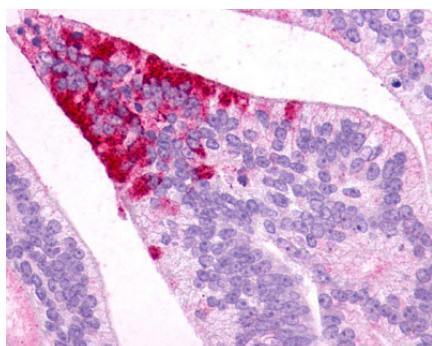
---



Anti-MC5R / MC5 Receptor antibody IHC of human Pancreas, Carcinoma.

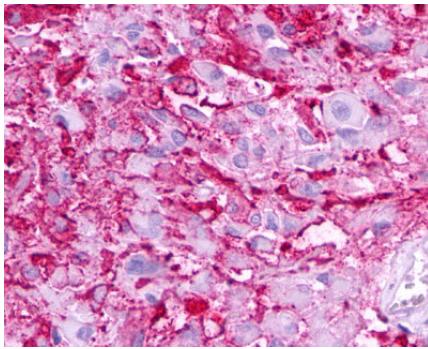


Anti-MC5 Receptor antibody ALS10245 IHC of human testis, spermatogenic series.

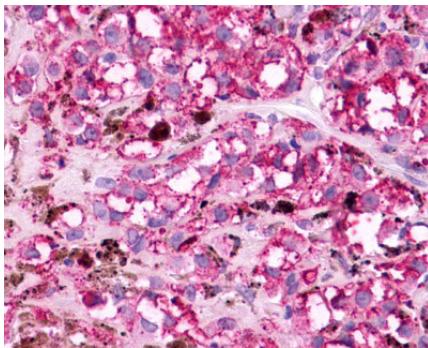


Anti-MC5R / MC5 Receptor antibody IHC of human Prostate, Carcinoma.

Anti-MC5R / MC5 Receptor antibody IHC of human Brain, Glioblastoma.



Anti-MC5R / MC5 Receptor antibody IHC of human Skin, Melanoma.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.