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MC5R / MC5 Receptor Antibody (N-Terminus)

Rabbit Polyclonal Antibody
Catalog # ALS10245

Product Information

Application	IHC-P
Primary Accession	P33032
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	36601
Dilution	IHC-P (7.6-8 g/ml)
Concentration (mg/ml)	1 mg/ml

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

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	Array

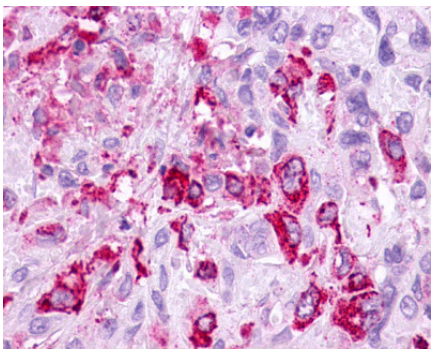
Background

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.

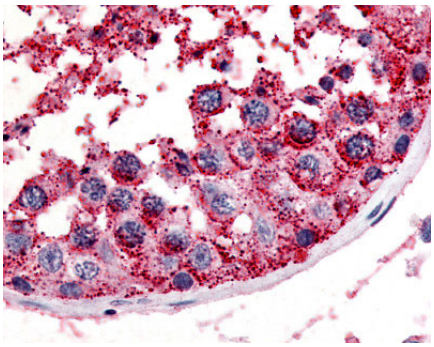
References

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.

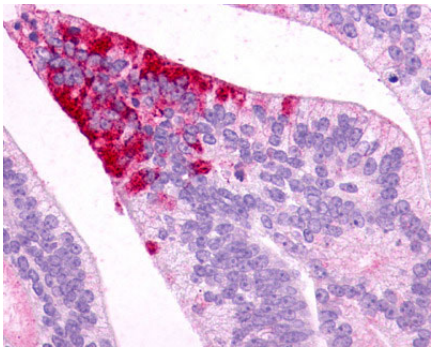
Images



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

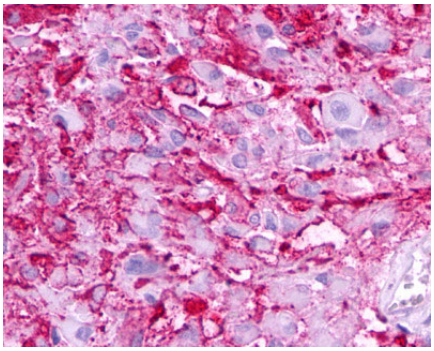


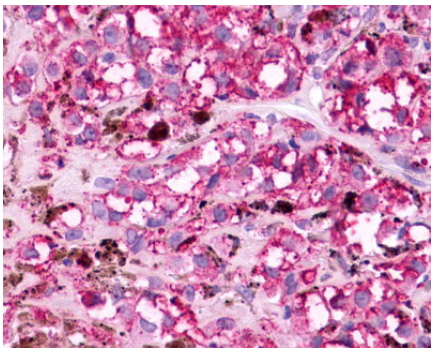
Anti-MC5 Receptor antibody ALS10245 IHC of human testis, spermatogenic series.



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'.