

MC3R Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21431b

Product Information

Application	WB, E
Primary Accession	P41968
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB48193
Calculated MW	36043

Additional Information

Gene ID	4159
Other Names	Melanocortin receptor 3, MC3-R, MC3R
Target/Specificity	This MC3R antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 301-335 amino acids from the C-terminal region of human MC3R.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MC3R Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MC3R (HGNC:6931)
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: 8463333). Upon activation, couples to G(s) protein, stimulating adenylate cyclase and the cAMP-dependent signaling pathway, which contributes to the regulation of energy homeostasis (PubMed: 18231126 , PubMed: 37524700 ,

PubMed:[8463333](#)). Required for expression of anticipatory patterns of activity and wakefulness during periods of limited nutrient availability and for the normal regulation of circadian clock activity in the brain (By similarity). Binding of the Agouti-related protein/AGPR antagonist precludes alpha-MSH-induced signaling, blocking cAMP production (PubMed:[9311920](#)).

Cellular Location

Cell membrane; Multi-pass membrane protein.

Tissue Location

Brain, placental, and gut tissues.

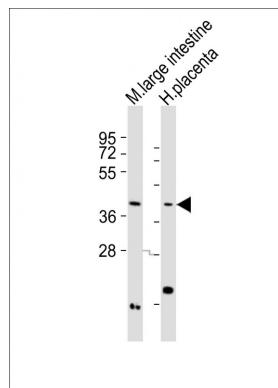
Background

Receptor for MSH (alpha, beta and gamma) and ACTH. This receptor is mediated by G proteins which activate adenylate cyclase. Required for expression of anticipatory patterns of activity and wakefulness during periods of limited nutrient availability and for the normal regulation of circadian clock activity in the brain.

References

Gantz I.,et al.J. Biol. Chem. 268:8246-8250(1993).
Kopatz S.A.,et al.Submitted (JAN-2003) to the EMBL/GenBank/DDBJ databases.
Deloukas P.,et al.Nature 414:865-871(2001).
Tarnow P.,et al.Obes. Facts 5:45-51(2012).
Lee Y.-S.,et al.J. Clin. Endocrinol. Metab. 87:1423-1426(2002).

Images



All lanes : Anti-MC3R Antibody (C-term) at 1:2000 dilution
Lane 1: mouse large intestine lysates Lane 2: human
placenta lysates Lysates/proteins at 20 µg per lane.
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase
conjugated at 1/10000 dilution Predicted band size : 36
kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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