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(DANRE) mc4r Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21404a

Product Information

Application	WB, E
Primary Accession	B0V1P1
Reactivity	Zebrafish
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB52063
Calculated MW	36435

Additional Information

Gene ID	286833
Other Names	Melanocortin receptor 4, MC4-R, mc4r
Target/Specificity	This DANRE mc4r antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 25-57 amino acids from the human region of DANRE mc4r.
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	(DANRE) mc4r Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	mc4r
Function	G protein-coupled receptor that binds melanocyte-stimulating hormones (alpha- and beta-MSH) and corticotropin/ACTH, which are peptide products of the POMC precursor. Plays a central role in energy homeostasis and somatic growth. Upon activation, couples to G(s) protein, stimulating adenylate cyclase and the cAMP-dependent signaling pathway.

Cellular Location	Cell membrane {ECO:0000250|UniProtKB:P32245}; Multi-pass membrane protein. Cell projection, cilium membrane {ECO:0000250|UniProtKB:P32245}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P32245}

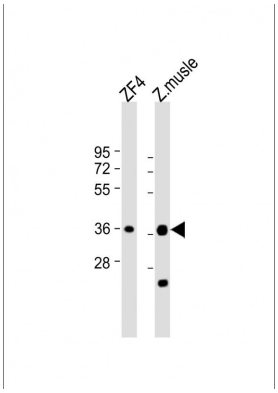
Background

Receptor specific to the heptapeptide core common to adrenocorticotropic hormone and alpha-, beta-, and gamma-MSH. Plays a central role in energy homeostasis and somatic growth. This receptor is mediated by G proteins that stimulate adenylate cyclase (cAMP).

References

Ringholm A.,et al.J. Neurochem. 82:6-18(2002).
Logan D.W.,et al.Genomics 81:184-191(2003).
Howe K.,et al.Nature 496:498-503(2013).
Sebag J.A.,et al.Science 341:278-281(2013).

Images



All lanes : Anti-(DANRE) mc4r Antibody (N-Term) at 1:1000 dilution Lane 1: ZF4 whole cell lysate Lane 2: Z. muscle whole lysate 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'.