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Anti-MC2 receptor Picoband Antibody

Catalog # ABO10241

Product Information

Application	WB
Primary Accession	Q01718
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Adrenocorticotropic hormone receptor(MC2R) detection. Tested with WB in Human;Mouse.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	4158
Other Names	Adrenocorticotropic hormone receptor, ACTH receptor, ACTH-R, Adrenocorticotropin receptor, Melanocortin receptor 2, MC2-R, MC2R, ACTHR
Calculated MW	33927
Application Details	Western blot, 0.1-0.5 □g/ml, Mouse, Human
Subcellular Localization	Cell membrane; Multi-pass membrane protein.
Tissue Specificity	Melanocytes and corticoadrenal tissue.
Source	Eukaryota
Protein Name	Adrenocorticotropic hormone receptor
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human MC2 receptor (268-297aa NAVIDPFIYAFRSPELRDAFKKMIFCSRYW), different from the related mouse sequence by four amino acids.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.

Protein Information

Name	MC2R (HGNC:6930)
Synonyms	ACTHR
Function	G protein-coupled receptor for corticotropin/ACTH, primarily expressed in adrenal cortex where it plays a key role in the regulation of adrenocortical function (PubMed:1325670, PubMed:17596328, PubMed:36588120). Upon activation, couples to G(s) protein, stimulating adenylate cyclase and activating the cAMP-dependent signaling pathway, the MAPK cascade as well as the PKA pathway, leading to steroidogenic factor 1/NR5A1-mediated transcriptional activation (PubMed:1325670). Activation by ACTH facilitates the release of adrenal glucocorticoids, including cortisol and corticosterone (PubMed:12213892, PubMed:8636348). In addition, MC2R is required for fetal and neonatal adrenal gland development (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Melanocytes and corticoadrenal tissue.

Background

Melanocortin-2 receptor (MC2R), also known as ACTH receptor (ACTHR), is a member of the G protein-coupled receptor family. This gene is mapped to 18p11.2. MC2R is selectively activated by adrenocorticotropic hormone, whereas the other four melanocortin receptors recognize a variety of melanocortin ligands. Mutations in MC2R can result in familial glucocorticoid deficiency. Alternate transcript variants have been found for this gene.

Images



Western blot analysis of MC2 receptor expression in mouse brain extract (lane 1). MC2 receptor at 39KD was detected using rabbit anti- MC2 receptor Antigen Affinity purified polyclonal antibody (Catalog #ABO10241) at 0.5 □¼g/mL. The blot was developed using chemiluminescence (ECL) method .

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