

Anti-MC2 receptor Picoband Antibody
Catalog # ABO10241**Specification**

Anti-MC2 receptor Picoband Antibody - Product Information

Application	WB
Primary Accession	Q01718
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Adrenocorticotrophic hormone receptor(MC2R) detection. Tested with WB in Human;Mouse.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-MC2 receptor Picoband Antibody - Additional Information

Gene ID 4158

Other Names

Adrenocorticotrophic hormone receptor, ACTH receptor, ACTH-R, Adrenocorticotropin receptor, Melanocortin receptor 2, MC2-R, MC2R, ACTHR

Calculated MW

33927 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Mouse, Human

Subcellular Localization

Cell membrane; Multi-pass membrane protein.

Tissue Specificity

Melanocytes and corticoadrenal tissue.

Protein Name

Adrenocorticotrophic 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 reconstitution, 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.

Anti-MC2 receptor Picoband Antibody - Protein Information

Name MC2R

Synonyms ACTHR

Function

Hormone receptor primarily expressed in adrenal cortex that plays a key role in regulating adrenocortical function (PubMed: <http://www.uniprot.org/citations/36588120> target="_blank">36588120). Upon corticotropin (ACTH) binding, facilitates the release of adrenal glucocorticoids, including cortisol and corticosterone. In addition, MC2R is required for fetal and neonatal adrenal gland development (By similarity). Mechanistically, activates adenylate cyclase (cAMP), the MAPK cascade as well as the cAMP- dependent protein kinase A pathway leading to steroidogenic factor 1/NR5A1-mediated transcriptional activation (By similarity).

Cellular Location

Cell membrane; Multi-pass membrane protein

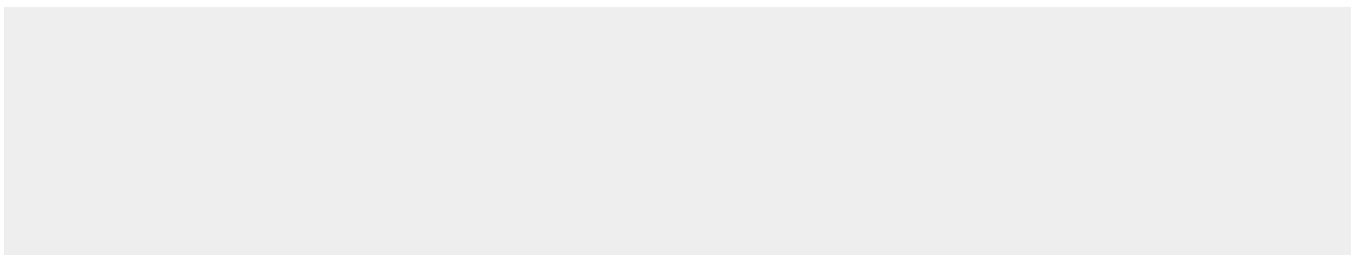
Tissue Location

Melanocytes and corticoadrenal tissue.

Anti-MC2 receptor Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-MC2 receptor Picoband Antibody - 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 μ g/mL. The blot was developed using chemiluminescence (ECL) method .

Anti-MC2 receptor Picoband Antibody - 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 adrenocorticotrophic 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.