

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

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**Anti-MC2 receptor Picoband Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q01718</a>
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<br>

**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 Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**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</a>). 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

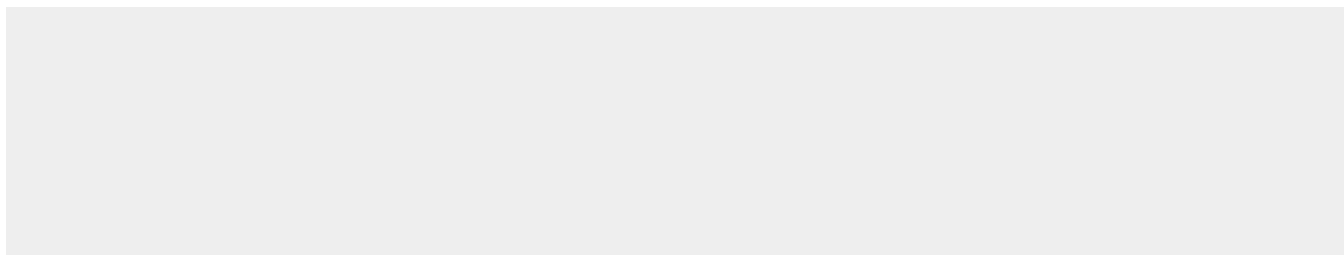
**Tissue Location**

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  $\mu$ 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.