

**MC2R Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP5540b**

**Specification**

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**MC2R Antibody (C-term) - Product Information**

Application	FC, IHC-P, WB,E
Primary Accession	<a href="#">Q01718</a>
Other Accession	<a href="#">Q8HYN8</a> , <a href="#">Q64326</a> , <a href="#">NP_000520.1</a>
Reactivity	Human
Predicted	Mouse, Pig
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	261-288

**MC2R Antibody (C-term) - Additional Information**

**Gene ID** 4158

**Other Names**

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

**Target/Specificity**

This MC2R antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 261-288 amino acids of human MC2R.

**Dilution**

FC~~1:10~50

IHC-P~~1:10~50

WB~~1:1000

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**

MC2R Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**MC2R Antibody (C-term) - Protein Information**

**Name** MC2R

**Synonyms** ACTHR

**Function** Hormone receptor primarily expressed in adrenal cortex that plays a key role in regulating adrenocortical function (PubMed:[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**

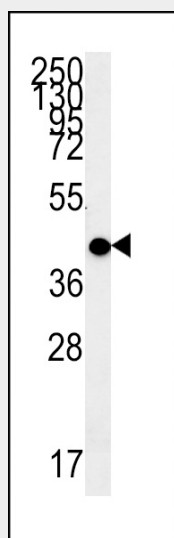
Melanocytes and corticoadrenal tissue.

**MC2R Antibody (C-term) - Protocols**

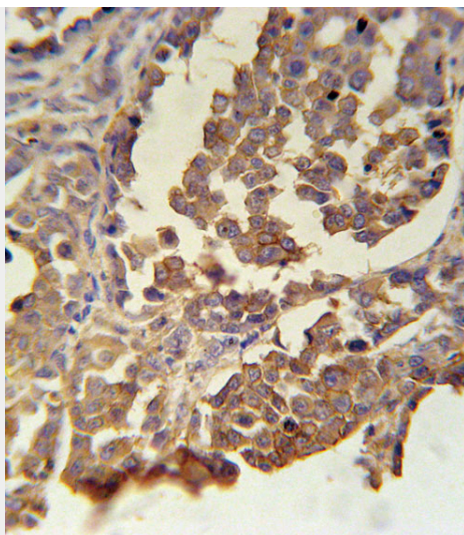
Provided below are standard protocols that you may find useful for product applications.

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

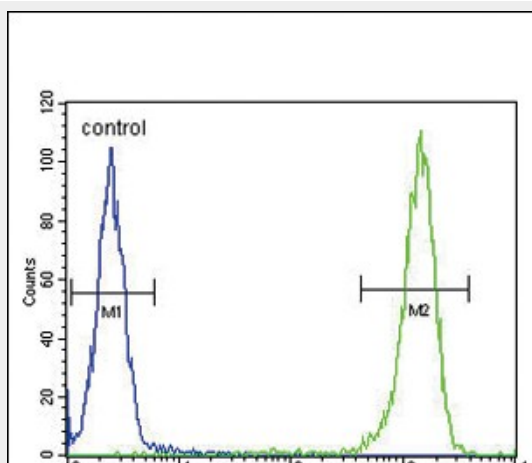
**MC2R Antibody (C-term) - Images**



MC2R Antibody (C-term) (Cat. #AP5540b) western blot analysis in WiDr cell line lysates (15ug/lane). This demonstrates the MC2R antibody detected the MC2R protein (arrow).



MC2R Antibody (C-term) (Cat. #AP5540b) immunohistochemistry analysis in formalin fixed and paraffin embedded human skin carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the MC2R Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



MC2R Antibody (C-term) (Cat. #AP5540b) flow cytometric analysis of WiDr cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### MC2R Antibody (C-term) - Background

MC2R encodes one member of the five-member G-protein associated melanocortin receptor family. Melanocortins (melanocyte-stimulating hormones and adrenocorticotrophic hormone) are peptides derived from pro-opiomelanocortin (POMC). MC2R is selectively activated by adrenocorticotrophic hormone, whereas the other four melanocortin receptors recognize a variety of melanocortin ligands.

### MC2R Antibody (C-term) - References

Holliday, K.L., et al. Ann. Rheum. Dis. 69(3):556-560(2010)  
Ding, Y.X., et al. Pharmacogenet. Genomics 20(2):71-76(2010)  
Roy, S., et al. Endocrinology 151(2):660-670(2010)

### MC2R Antibody (C-term) - Citations

- [Colocalization of Wnt/ \$\beta\$ -Catenin and ACTH Signaling Pathways and Paracrine Regulation in Aldosterone-producing Adenoma](#)
- [Steroidogenic enzyme profile in an androgen-secreting adrenocortical oncocytoma associated with hirsutism.](#)