

**Goat Anti-MC2R / ACTHR Antibody**  
Peptide-affinity purified goat antibody  
Catalog # AF1658a

**Specification**

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**Goat Anti-MC2R / ACTHR Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q01718</a>
Other Accession	<a href="#">NP_000520</a> , <a href="#">4158</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	33927

**Goat Anti-MC2R / ACTHR Antibody - Additional Information**

**Gene ID** 4158

**Other Names**

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

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-MC2R / ACTHR Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-MC2R / ACTHR Antibody - Protein Information**

**Name** MC2R

**Synonyms** ACTHR

**Function**

Receptor for corticotropin (ACTH). This receptor is mediated by G proteins (G(s)) which activate adenylate cyclase (cAMP).

**Cellular Location**

Cell membrane; Multi-pass membrane protein.

#### Tissue Location

Melanocytes and corticoadrenal tissue.

### Goat Anti-MC2R / ACTHR 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](#)

### Goat Anti-MC2R / ACTHR Antibody - Images



AF1658a (1 µg/ml) staining of Human Skin lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### Goat Anti-MC2R / ACTHR Antibody - 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. Mutations in MC2R can result in familial glucocorticoid deficiency.

### Goat Anti-MC2R / ACTHR Antibody - References

Comprehensive analysis of common genetic variation in 61 genes related to steroid hormone and insulin-like growth factor-I metabolism and breast cancer risk in the NCI breast and prostate cancer cohort consortium. Canzian F, et al. Hum Mol Genet, 2010 Oct 1. PMID 20634197.

Genetic variation in neuroendocrine genes associates with somatic symptoms in the general population: results from the EPIFUND study. Holliday KL, et al. J Psychosom Res, 2010 May. PMID 20403506.

ACTH receptor (MC2R) promoter variants associated with infantile spasms modulate MC2R expression and responsiveness to ACTH. Ding YX, et al. Pharmacogenet Genomics, 2010 Feb. PMID

20042918.

Role of asparagine-linked glycosylation in cell surface expression and function of the human adrenocorticotropin receptor (melanocortin 2 receptor) in 293/FRT cells. Roy S, et al. *Endocrinology*, 2010 Feb. PMID 20022931.

Isolated Addison's disease is unlikely to be caused by mutations in MC2R, MRAP or STAR, three genes responsible for familial glucocorticoid deficiency. Dias RP, et al. *Eur J Endocrinol*, 2010 Feb. PMID 19903795.