Product Name: MC2-R Rabbit Polyclonal Antibody
Catalog #: APRab13697

Summary

Production Name	MC2-R Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IF,WB,
Reactivity	Human,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	MC2R
Alternative Names	MC2R; ACTHR; Adrenocorticotropic hormone receptor; ACTH receptor; ACTH-R; Adrenocorticotropin receptor; Melanocortin receptor 2; MC2-R
Gene ID	4158.0
SwissProt ID	Q01718.The antiserum was produced against synthesized peptide derived from human ACTHR. AA range:248-297

Application

Dilution Ratio	WB 1:500-2000;IF ICC 1:100-500; ELISA 2000-20000
Molecular Weight	34kD

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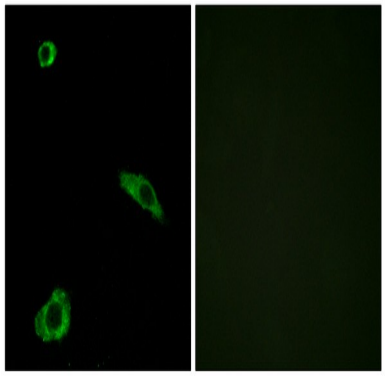
Background

MC2R encodes one member of the five-member G-protein associated melanocortin receptor family. Melanocortins (melanocyte-stimulating hormones and adrenocorticotropic hormone) are peptides derived from pro-opiomelanocortin (POMC). 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. [provided by RefSeq, May 2014],disease:Defects in MC2R are the cause of glucocorticoid deficiency type 1 (GCCD1) [MIM:202200]; also known as familial glucocorticoid deficiency type 1 (FGD1). GCCD1 is an autosomal recessive disorder due to congenital insensitivity or resistance to adrenocorticotropin (ACTH). It is characterized by progressive primary adrenal insufficiency, without mineralocorticoid deficiency.,function:Receptor for ACTH. This receptor is mediated by G proteins (G(s)) which activate adenylate cyclase.,similarity:Belongs to the G-protein coupled receptor 1 family.,subunit:Interacts with FALP/MRAP.,tissue specificity:Melanocytes and corticoadrenal tissue.,

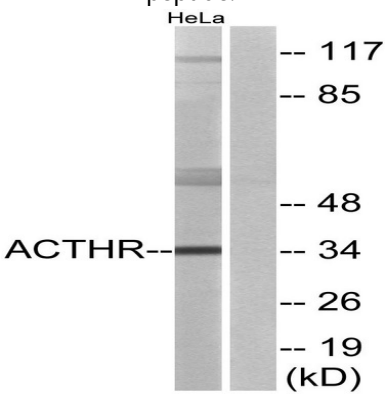
Research Area

Neuroactive ligand-receptor interaction;

Image Data



Immunofluorescence analysis of MCF7 cells, using ACTHR Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HeLa cells, using ACTHR Antibody. The lane on the right is blocked with the

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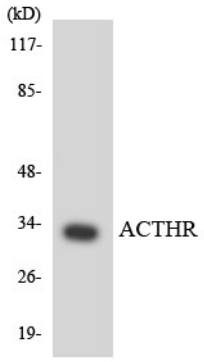
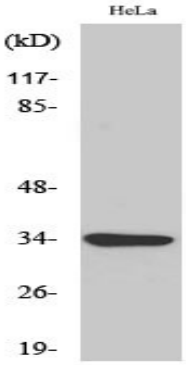
synthesized peptide.



Western blot analysis of the lysates from COLO205 cells using ACTHR antibody.



Western Blot analysis of various cells using MC2-R Polyclonal Antibody

Note

For research use only.