



MC2-R Polyclonal Antibody

Catalog No	YP-Ab-13404
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;ELISA;IHC;IF
Gene Name	MC2R
Protein Name	Adrenocorticotrophic hormone receptor
Immunogen	The antiserum was produced against synthesized peptide derived from human ACTHR. AA range:248-297
Specificity	MC2-R Polyclonal Antibody detects endogenous levels of MC2-R protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000; IHC 1:50-300; IF 1:200-1:1000; ELISA 1:2000-20000 Note:For IHC,wesuggest antigen retrieval with TE buffer pH 9.0
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	MC2R; ACTHR; Adrenocorticotrophic hormone receptor; ACTH receptor; ACTH-R; Adrenocorticotropin receptor; Melanocortin receptor 2; MC2-R
Observed Band	34kD
Cell Pathway	Cell membrane; Multi-pass membrane protein.
Tissue Specificity	Melanocytes and corticoadrenal tissue.
Function	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.,
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. Alternate transcript variants have been found for this gene. [provided by RefSeq, May 2014],

matters needing attention

Avoid repeated freezing and thawing!

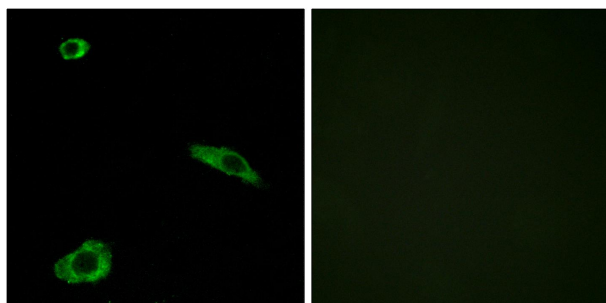
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

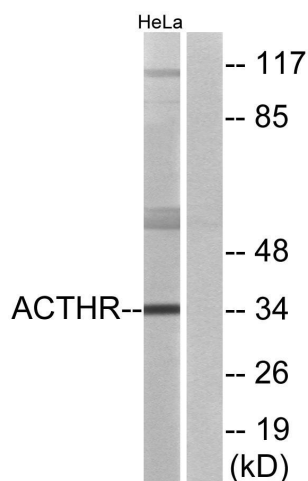
Products Images



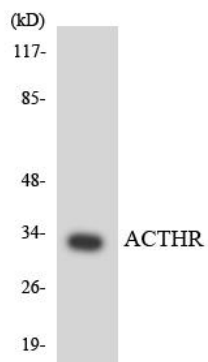
Western Blot analysis of various cells using MC2-R Polyclonal Antibody



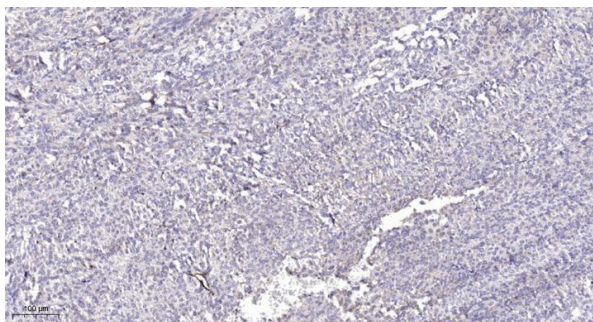
Immunofluorescence analysis of MCF7 cells, using ACTHR Antibody. The picture on the right is blocked with the synthesized peptide.



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



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



Immunohistochemical analysis of paraffin-embedded human Colon cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA, pH9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200(room temperature, 45min).