10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CRHR2 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6787a

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q13324
Other Accession	P47866, Q60748
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB19233
Calculated MW	47688
Antigen Region	84-114

Additional Information

Gene ID	1395
Other Names	Corticotropin-releasing factor receptor 2, CRF-R-2, CRF-R2, CRFR-2, Corticotropin-releasing hormone receptor 2, CRH-R-2, CRH-R2, CRHR2, CRF2R, CRH2R
Target/Specificity	This CRHR2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 84-114 amino acids from the N-terminal region of human CRHR2.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	CRHR2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CRHR2 (HGNC:2358)

Synonyms	CRF2R, CRH2R
Function	G protein-coupled receptor for CRH, UCN, UCN2 and UCN3 stress hormones, which plays a central role in whole body adaptation to stress (PubMed:11329063, PubMed:11416224, PubMed:20966082, PubMed:22689579, PubMed:32004470, PubMed:36335102). Has highest affinity for UCN, and much lower affinity for CRH, UNC2 and UCN3 (PubMed:20966082, PubMed:22689579, PubMed:32004470, PubMed:36335102). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and downstream effectors, such as adenylate cyclase (PubMed:32004470, PubMed:36335102). CRHR2 is coupled to G(s) G protein (GNAS), mediating activation of adenylate cyclase activity and production of cAMP (PubMed:32004470, PubMed:36335102). CRHR2-dependent signaling is a primary mediator of the neuroendocrine, autonomic (fight-or-flight) and behavioral responses to stress, acting as a key regulator of adaptation by activating the hypothalamus-pituitary-adrenal axis, leading to corticotropin hormone (ACTH) production (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein

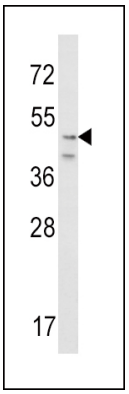
Background

CRHR2 is a receptor for corticotropin releasing factor.It Shows high-affinity CRF binding. Also binds to urocortin I, II and III. The activity of this receptor is mediated by G proteins which activate adenylyl cyclase.

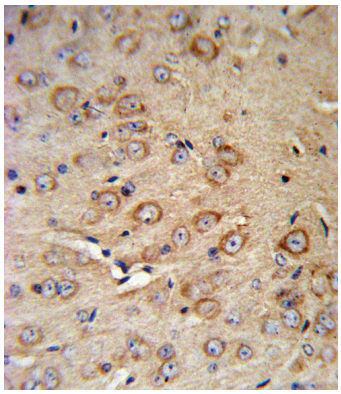
References

Yerges,L.M., et.al., J. Bone Miner. Res. (2009)

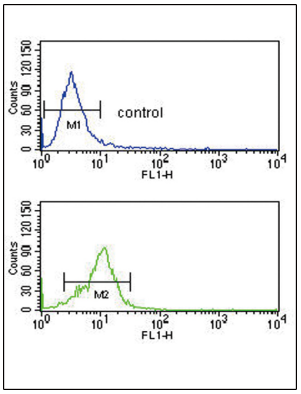
Images



Western blot analysis of CRHR2 Antibody (N-term) (Cat. #AP6787a) in NIH-3T3 cell line lysates (35ug/lane). CRHR2 (arrow) was detected using the purified Pab.



CRHR2 Antibody (N-term) (Cat. #AP6787a) IHC analysis in formalin fixed and paraffin embedded mouse brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the CRHR2 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



CRHR2 Antibody (N-term) (Cat. #AP6787a) flow cytometry analysis of K562 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.