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CRF-RI Polyclonal Antibody

Catalog # AP73673

Product Information

Application	WB, IHC-P, IF, ICC, E
Primary Accession	P34998
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47671

Additional Information

Gene ID	1394
Other Names	CRHR1; CRFR; CRFR1; CRHR; Corticotropin-releasing factor receptor 1; CRF-R-1; CRF-R1; CRFR-1; Corticotropin-releasing hormone receptor 1; CRH-R-1; CRH-R1
Dilution	WB~~Western Blot: 1/500 - 1/2000. IHC-p: 1/100-1/300. ELISA: 1/20000. Not yet tested in other applications. IHC-P~~Western Blot: 1/500 - 1/2000. IHC-p: 1/100-1/300. ELISA: 1/20000. Not yet tested in other applications. IF~~1:50~200 ICC~~N/A E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

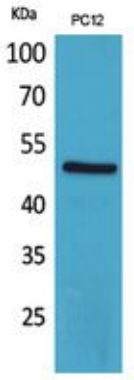
Name	CRHR1 (HGNC:2357)
Function	G protein-coupled receptor for CRH and UCN stress hormones, which plays a central role in whole body adaptation to stress (PubMed:18292205, PubMed:18801728, PubMed:20966082, PubMed:23576434, PubMed:23863939, PubMed:24290358, PubMed:32004469, PubMed:32004470). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and downstream effectors, such as adenylate cyclase (PubMed:18292205, PubMed:32004469, PubMed:32004470). CRHR1 is mainly coupled to G(s) G protein (GNAS), mediating activation of adenylate cyclase activity and production of cAMP (PubMed:18292205, PubMed:32004469, PubMed:32004470). In some conditions, can also couple to G(q) G protein (GNAQ) and mediate production of diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) second messengers (PubMed:14657255). CRHR1-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). Mediates both anxiogenic and anxiolytic response to stress in glutamatergic and dopaminergic neurons, respectively (By similarity). CRHR1 also plays a critical role in addiction by mediating the brain's stress response, particularly during withdrawal and relapse: it drives the transition to compulsive drug seeking by increasing anxiety and negative emotional states (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein. Note=Agonist-binding promotes endocytosis.
Tissue Location	Predominantly expressed in the cerebellum, pituitary, cerebral cortex and olfactory lobe

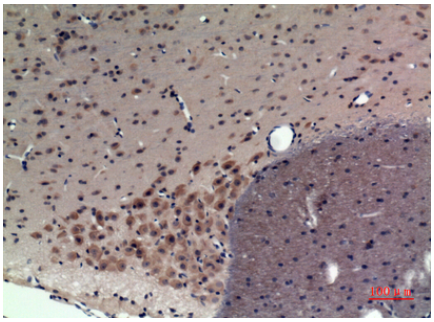
Background

G-protein coupled receptor for CRH (corticotropin- releasing factor) and UCN (urocortin). Has high affinity for CRH and UCN. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and down-stream effectors, such as adenylate cyclase. Promotes the activation of adenylate cyclase, leading to increased intracellular cAMP levels. Inhibits the activity of the calcium channel CACNA1H. Required for normal embryonic development of the adrenal gland and for normal hormonal responses to stress. Plays a role in the response to anxiogenic stimuli.

Images

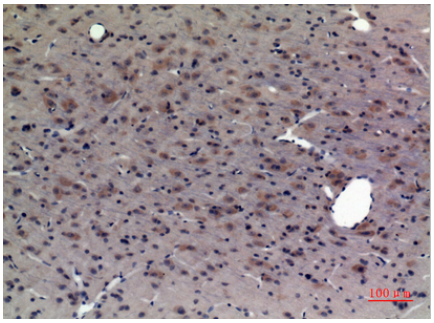


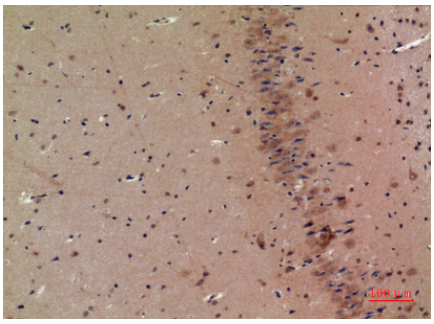
Western Blot analysis of PC12 cells using CRF-RI Polyclonal Antibody.. Secondary antibody was diluted at 1:20000



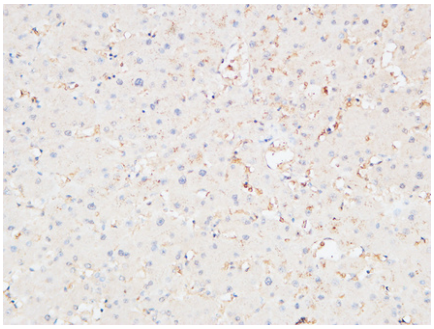
Immunohistochemical analysis of paraffin-embedded rat-brain, antibody was diluted at 1:100

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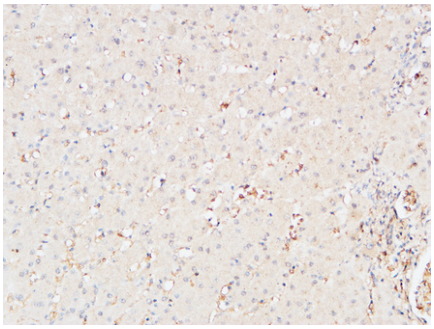




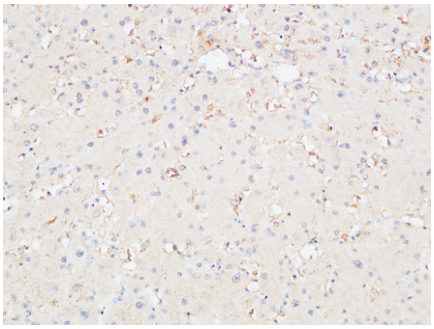
Immunohistochemical analysis of paraffin-embedded mouse-brain, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded Human Liver. 1, Antibody was diluted at 1:100(4°,overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).

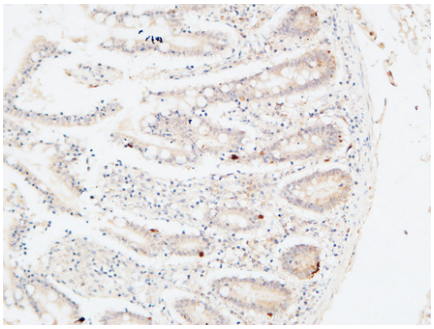


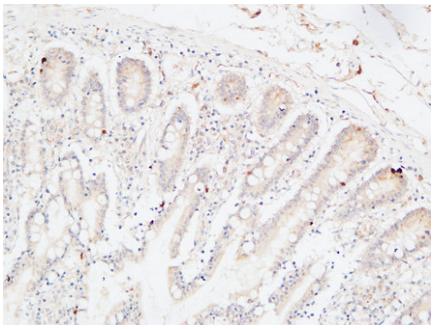
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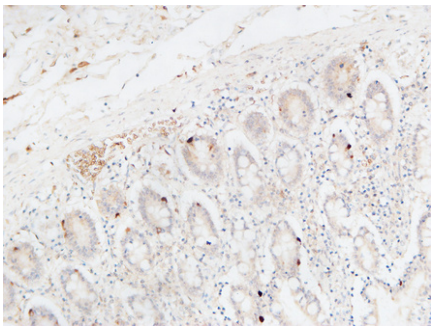
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Immunohistochemical analysis of paraffin-embedded Human colon. 1, Antibody was diluted at 1:100(4°,overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).





Immunohistochemical analysis of paraffin-embedded Human colon. 1, Antibody was diluted at 1:100(4°,overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).



Immunohistochemical analysis of paraffin-embedded Human colon. 1, Antibody was diluted at 1:100(4°,overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).

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