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

Anti-CRHR2 Antibody

Catalog # AP51116

Product Information

Application	WB, IF/IC
Primary Accession	Q13324
Reactivity	Human, Mouse, Rat, Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47688

Additional Information

Gene ID	1395
Other Names	CRF2R; CRH2R; Corticotropin-releasing factor receptor 2; CRF-R-2; CRF-R2; CRFR-2; Corticotropin-releasing hormone receptor 2; CRH-R-2; CRH-R2
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CRHR2. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

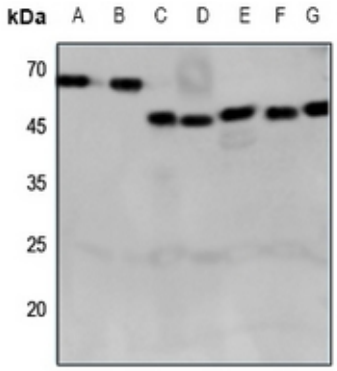
Name	CRHR2 (HGNC:2358)
Synonyms	CRF2R, CRH2R
Function	G protein-coupled receptor for CRH, UCN, UCN2 and UCN3 stress hormones, which plays a central role in whole body adaptation to stress (PubMed:11329063, PubMed:11416224, PubMed:20966082, PubMed:22689579, PubMed:32004470, PubMed:36335102). Has highest 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

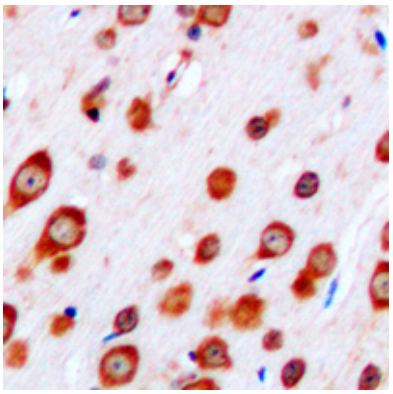
References

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Suwa M.,et al.Submitted (JUL-2001) to the EMBL/GenBank/DDBJ databases.
King M.M.,et al.Submitted (OCT-2003) to the EMBL/GenBank/DDBJ databases.

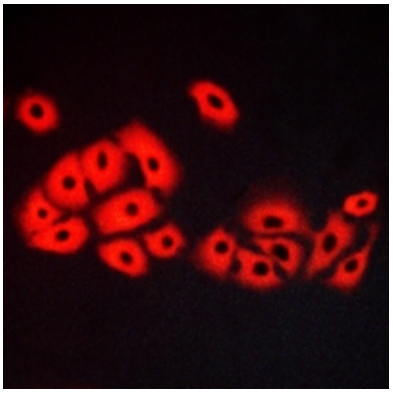
Images



Western blot analysis of CRHR2 expression in HEK293T (A), Hela (B), HepG2 (C), mouse brain (D), mouse lung (E), mouse kidney (F), rat kidney (G) whole cell lysates. (Predicted band size: 47 kD; Observed band size: 53; 66 kD)



Immunohistochemical analysis of CRHR2 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of CRHR2 staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

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