

Rabbit CRHR1 Polyclonal Antibody | anti-CRHR1 antibody

CRHR1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321964	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

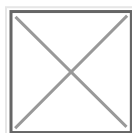
PRODUCT SYNONYMS

CRHR1; Polyclonal Antibody; CRHR1 Antibody; Corticotropin releasing factor type 1 receptor; corticotropin releasing hormone receptor 1; Corticotropin-releasing factor receptor 1; Corticotropin-releasing hormone receptor 1; CRF R; crf receptor 1; crf receptor type 1; crf type 1; CRF-R; CRF-R-1; CRF-R1; CRF1; CRFR; CRFR-1; CRFR1; CRFR1_HUMAN; CRH-R-1; CRH-R1; CRH-R1h; CRHR; Crrh1; CRHR1f; CRHR1L; anti-CRHR1 antibody

PRODUCT SPECIFICATIONS

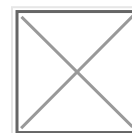
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CRHR1 antibody detects endogenous levels of total CRHR1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	444
Applicable Applications for anti-CRHR1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CRHR1
Subcellular Location	Cell Membrane
Tissue Specificity	Predominantly expressed in the cerebellum, pituitary, cerebral cortex and olfactory lobe.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine
Similarity	Pig (92%), Zebrafish (92%), Bovine (92%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of CRHR1 expression in HT-29 cells. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA321964 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)

AAA321964 staining HT29 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CRHR1 antibody	Description: This is a receptor for corticotropin releasing factor. Shows high-affinity CRF binding. The activity of this receptor is mediated by G proteins which activate adenylyl cyclase. Function: 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 adenylyl cyclase. Promotes the activation of adenylyl 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. Subunit Structure: Heterodimer; heterodimerizes with GPER1 (By similarity). Interacts (via N-terminal extracellular domain) with CRH and UCN. Interacts with DLG1; this inhibits endocytosis of CRHR1 after agonist binding. Post-translational Modifications: C-terminal Ser or Thr residues may be phosphorylated. Phosphorylation at Ser-330 by PKA prevents maximal coupling to Gq-protein, and thereby negatively regulates downstream signaling. Similarity: The transmembrane domain is composed of seven transmembrane helices that are arranged in V-shape. Transmembrane helix 7 assumes a sharply kinked structure. The antagonist CP-376395 binds at an allosteric site, far from the presumed binding site for the physiological peptide ligand. Belongs to the G-protein coupled receptor 2 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	223717971
NCBI GeneID	1394
NCBI Accession #	NP_001138618.1
NCBI GenBank Nucleotide #	NM_001145146.1
UniProt Accession #	P34998; Q13008; Q4QRJ1; Q9UK64; B4DIE9
Molecular Weight	Observed: 51 kDa Predicted: 51 kDa
NCBI Official Full Name	corticotropin-releasing factor receptor 1 isoform 1
NCBI Official Synonym Full Names	corticotropin releasing hormone receptor 1
NCBI Official Symbol	CRHR1
NCBI Official Synonym Symbols	CRF1; CRHR; CRF-R; CRFR1; CRF-R1; CRFR-1; CRH-R1; CRHR1L; CRF-R-1; CRH-R-1
NCBI Protein Information	corticotropin-releasing factor receptor 1
UniProt Protein Name	Corticotropin-releasing factor receptor 1
UniProt Gene Name	CRHR1
UniProt Synonym Gene Names	CRFR; CRFR1; CRHR; CRF-R-1; CRF-R1; CRFR-1; CRH-R-1; CRH-R1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.