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CRFR1 Antibody (Q103)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11441a

Specification

CRFR1 Antibody (Q103) - Product Information

Application	**WB, FC,E**
Primary Accession	P34998
Other Accession	P35353, NP_001138618.1, NP_004373.2
Reactivity	**Human**
Predicted	**Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**47671**
Antigen Region	**88-119**

CRFR1 Antibody (Q103) - Additional Information

Gene ID 1394

Other Names
Corticotropin-releasing factor receptor 1, CRF-R-1, CRF-R1, CRFR-1, Corticotropin-releasing hormone receptor 1, CRH-R-1, CRH-R1, CRHR1, CRFR, CRFR1, CRHR

Target/Specificity
This CRFR1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 88-119 amino acids from human CRFR1.

Dilution
WB~~1:1000
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 purified through a protein A column, followed by peptide affinity purification.

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
CRFR1 Antibody (Q103) is for research use only and not for use in diagnostic or therapeutic procedures.

CRFR1 Antibody (Q103) - Protein Information

Name CRHR1 (HGNC:2357)

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 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.

Cellular Location
Cell membrane; Multi-pass membrane protein. Endosome. Note=Agonist-binding promotes endocytosis

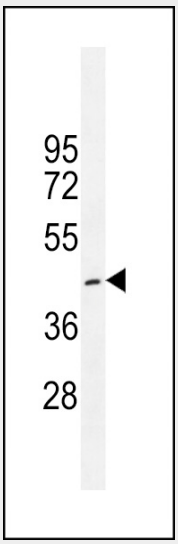
Tissue Location
Predominantly expressed in the cerebellum, pituitary, cerebral cortex and olfactory lobe

CRFR1 Antibody (Q103) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CRFR1 Antibody (Q103) - Images



CRFR1 Antibody (Q103) (Cat. #AP11441a) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the CRFR1 antibody detected the CRFR1 protein (arrow).

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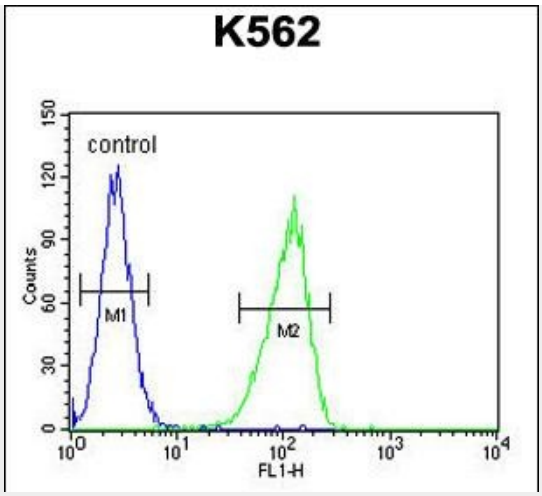

CRFR1 Antibody (Q103) (Cat. #AP11441a) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

CRFR1 Antibody (Q103) - Background

This gene encodes a G-protein coupled receptor that binds neuropeptides of the corticotropin releasing hormone family that are major regulators of the hypothalamic-pituitary-adrenal pathway. The encoded protein is essential for the activation of signal transduction pathways that regulate diverse physiological processes including stress, reproduction, immune response and obesity. Alternative splicing results in multiple transcript variants.

CRFR1 Antibody (Q103) - References

Karteris, E., et al. Endocrinology 151(10):4959-4968(2010)
Romero, R., et al. Am. J. Obstet. Gynecol. 203 (4), 361 (2010) :
Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Ruano, G., et al. Pharmacogenomics 11(7):959-971(2010)
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