

### CRFR1 Antibody (Q103)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP11441a

### Specification

# CRFR1 Antibody (Q103) - Product Information

Application Primary Accession Other Accession Reactivity Predicted Host Clonality Isotype Calculated MW Antigen Region WB, FC,E P34998 P35353, NP\_001138618.1, NP\_004373.2 Human Rat Rabbit Polyclonal Rabbit IgG 47671 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**

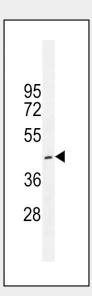
Predominantly expressed in the cerebellum, pituitary, cerebral cortex and olfactory lobe

### **CRFR1 Antibody (Q103) - Protocols**

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

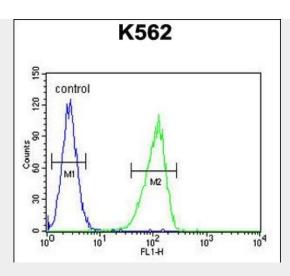
- <u>Western Blot</u>
- <u>Blocking Peptides</u>
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

# 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).





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) Hillhouse, E.W., et al. Endocr. Rev. 27(3):260-286(2006)