

## Rabbit anti-Human CRFR2D Polyclonal Antibody | anti-CRHR2 antibody

CRFR2D Antibody

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                                |
|-----------|--------|------------|-----------------------------------------------------------------------------|
| AAA287419 | Rabbit | Human      | Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot |

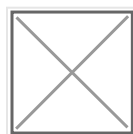
### PRODUCT SYNONYMS

CRFR2D; Polyclonal Antibody; CRFR2D Antibody; Corticotropin-releasing factor receptor 2; CRF-R-2; CRF-R2; CRFR-2; Corticotropin-releasing hormone receptor 2; CRH-R-2; CRH-R2; CRHR2; CRF2R; CRH2R; anti-CRHR2 antibody

### PRODUCT SPECIFICATIONS

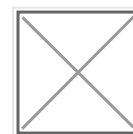
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|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                       |
| Reactivity                                      | Human                                                                                                                                                                                                                                                                                                                                                                                                        |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                   |
| Isotype                                         | Rabbit Ig                                                                                                                                                                                                                                                                                                                                                                                                    |
| Specificity                                     | This CRFR2D antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the human CRFR2D.                                                                                                                                                                                                                                                                             |
| Purity/Purification                             | Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)                                                                                                                                                                                                                                                                                                                                                   |
| Form/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.                                                                                                                                                                                                                                 |
| Concentration                                   | Vial Concentration: 0.5 (varies by lot)                                                                                                                                                                                                                                                                                                                                                                      |
| Sequence Length                                 | 410                                                                                                                                                                                                                                                                                                                                                                                                          |
| Applicable Applications for anti-CRHR2 antibody | FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)                                                                                                                                                                                                                                                                                                                              |
| Cellular Location                               | Cell membrane; Multi-pass membrane protein                                                                                                                                                                                                                                                                                                                                                                   |
| Antigen Source                                  | HUMAN                                                                                                                                                                                                                                                                                                                                                                                                        |
| Function                                        | G-protein coupled receptor for CRH (corticotropin-releasing factor), UCN (urocortin), UCN2 and UCN3. Has high affinity for 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. |
| Preparation and 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.                                                                                                                                                                                                                                                                      |

### IMAGES



#### FCM/FACS (Flow Cytometry)

CRFR2D Antibody flow cytometric analysis of HeLa cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



#### IHC (Immunohistochemistry)

CRFR2D Antibody immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of CRFR2D Antibody for immunohistochemistry. Clinical relevance has not been evaluated.



#### WB (Western Blot)

CRFR2D Antibody western blot analysis in Hela cell line lysates (35ug/lane). This demonstrates the CRFR2D antibody detected the CRFR2D protein (arrow).

### ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CRHR2 antibody | Liaw et al. (1996) [PubMed 8536644] stated that there are 2 G protein-coupled corticotropin-releasing hormone (CRH; MIM 122560) receptors, CRHR1 (MIM 122561) and CRHR2, which they termed the CRF2 receptor. CRH is a 41-amino acid peptide synthesized in the hypothalamus that is the principal neuroregulator of the hypothalamic-pituitary-adrenocortical axis and plays an important role in coordinating the endocrine, autonomic, and behavioral responses to stress and immune challenge. |
| Product Categories/Family for anti-CRHR2 antibody   | Neuroscience; GPCR Antibodies                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| References                                          | Romero, R., et al. Am. J. Obstet. Gynecol. 203 (4), 361 (2010) :<br>Gutknecht, E., et al. Eur. J. Pharmacol. 642 (1-3), 1-9 (2010) :<br>Ruano, G., et al. Pharmacogenomics 11(7):959-971(2010)<br>Pinheiro, A.P., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 153B (5), 1070-1080 (2010) :<br>Joubert, B.R., et al. Genome Med 2 (3), 17 (2010) :                                                                                                                                           |

### NCBI AND UNIPROT INFORMATION

|                                  |                                                                                |
|----------------------------------|--------------------------------------------------------------------------------|
| NCBI GI #                        | 321117173                                                                      |
| NCBI GeneID                      | 1395                                                                           |
| NCBI Accession #                 | NP_001189404.1; NP_001189410.1; NP_001189411.1; NP_001189412.1; NP_001874.2    |
| NCBI GenBank Nucleotide #        | NM_001202475.1                                                                 |
| UniProt Accession #              | Q13324; O43461; Q4QRJ4; Q99431; B2R967; B3SXS6; B3SXS7; B3SXS8; B3SXT0; F8WA81 |
| Molecular Weight                 | 47688                                                                          |
| NCBI Official Full Name          | corticotropin-releasing factor receptor 2 isoform 2                            |
| NCBI Official Synonym Full Names | corticotropin releasing hormone receptor 2                                     |
| NCBI Official Symbol             | CRHR2                                                                          |
| NCBI Official Synonym Symbols    | CRF2; CRFR2; CRF-RB; HM-CRF                                                    |
| NCBI Protein Information         | corticotropin-releasing factor receptor 2                                      |
| UniProt Protein Name             | Corticotropin-releasing factor receptor 2                                      |
| UniProt Gene Name                | CRHR2                                                                          |
| UniProt Synonym Gene Names       | CRF2R; CRH2R; CRF-R-2; CRF-R2; CRFR-2; CRH-R-2; CRH-R2                         |
| UniProt Entry Name               | CRFR2_HUMAN                                                                    |

**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.