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Antibody to Corticotropin Releasing Factor receptor 2 (CRFr2) RABBIT POLYCLONAL

Catalog Number: AB-21
Quantity: 100 microliters
Format: Liquid antisera, no preservative
Host: Rabbit
Immunogen: amino terminus peptide CHR2 conjugated to BSA

Background:

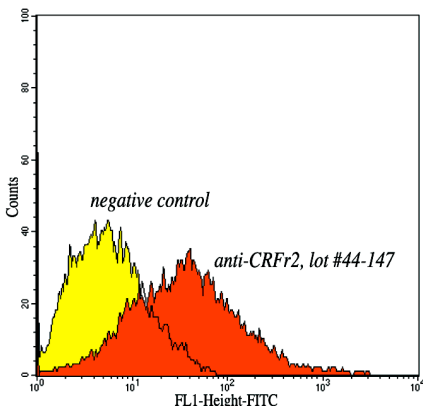
Corticotropin Releasing Factor is also known as corticotropin hormone releasing hormone (CHRH). CRF receptor 2 (CRFr2) expression has been reported in various regions of the brain, as well as in placenta, umbilical vein, heart, epididymis, gastrointestinal tract, adrenal, and skeletal muscle. Urocortin has a preference for CRFr2 (40-fold over CRF). CRFr2 will bind CRF (CHRH) at a 20-fold lower affinity than CRFr1. CRFr2 binds to Urocortin II and III with an extremely high affinity, both have little or no binding to CRFr1.

Specificity and Preparation:

This antibody recognizes the aminoterminal extracellular domain of the Corticotropin Releasing Factor receptor 2 (CRFr2) in rat. Mouse CRFr2 sequence is identical to rat CRFr2. Human and dog are 94% homologous with the Rat CRFr2 sequence. This antibody was produced in rabbit by immunization with an amino terminus peptide CHR₂ conjugated to BSA. This antibody is routinely tested by immunoblotting and flow cytometry.

Usage and Storage:

Applications include immunoblotting (ATS in-house; 1:1,000), immunohistochemistry (ATS in-house; fresh cells, 1:100), and ELISA (ATS in-house; 1:1,000-1:1,000,000). Working dilutions must be determined by the end user. Store the antibody at 4°C for one month or -20°C in undiluted aliquots for one year. Avoid repeated freezing and thawing. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate.



PC12 Cells, Rat Pheochromocytoma cells, were used for a FACS analysis with the CHR₂ antibody that binds to the CRFr2 site. Cells were treated with anti-CRFr2 at a 1:100 dilution and subsequently with goat anti rabbit-FITC (BD Biosciences). A 39.3% shift is seen as compared to the negative control.



Lane 1: Molecular Weight Standards (Invitrogen See-Blue)

Lane 2: 6.88 μ g PC12 membrane preparation probed with AB-21 at a 1:1000 dilution.