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**Antibody to Corticotropin Releasing Hormone/Factor (CRH/CRF)
RABBIT POLYCLONAL**

Catalog Number: AB-02
Quantity: 100 microliters
Format: Liquid antisera, no preservative
Host: Rabbit
Immunogen: synthetic fragment of rat CRF (1-41)

Background:

Corticotropin-releasing hormone/factor (CRH/CRF) is the principal neuropeptide involved in regulating the stress response. It stimulates ACTH release from the pituitary gland. When centrally administered to animals it produces somatic changes analogous to those seen in both depression and anxiety. In humans, it is capable of reproducing the hormonal changes which are characteristically seen in depressed patients.

Specificity and Preparation:

This antibody recognizes human and rat corticotropin-releasing hormone/factor. The immunogen was raised in rabbits against the synthetic fragment of rat CRF (1-41). The antibody is routinely tested by dot blot.

Usage and Storage:

Applications include radioimmunoassay (1:600,000),^{1,3} affinity chromatography (ATS in-house; 0.64 mg/ml of column), immunoblotting (ATS in-house; 1:10,000), immunostaining (1:200-1:600)² and immunocytochemistry (1:1,000).¹ Working dilutions must be determined by 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.

References:

1. Widmaier EP, Lim AT, Vale W. (1989) Secretion of corticotropin-releasing factor from cultured rat hypothalamic cells: effects of catecholamines. *Endocrinol* 124:583-590.
2. Bloch B, Gaillard RC, Brazeau P, Lin HD, Ling N (1984) Topographical and ontogenetic study of the neurons producing growth hormone-releasing factor in human hypothalamus. *Regul Pept* 8(1):21-31.
3. Vale W, Vaughan J, Yamamoto G, Bruhn T, Douglas C, Dalton D, Rivier C, Rivier J. (1983) Assay of corticotropin releasing factor. *Meth Enzymol* 103:565-577.