

## Anti-Corticotropin Releasing Factor/CRH Antibody Picoband®

Catalog Number: A00629

### About CRH

Corticotropin-releasing hormone (CRH), also known as corticotropin-releasing factor (CRF) or corticoliberin is a peptide hormone and neurotransmitter involved in the stress response. In humans, it is encoded by the CRH gene. This gene encodes a member of the corticotropin-releasing factor family. The encoded preproprotein is proteolytically processed to generate the mature neuropeptide hormone. In response to stress, this hormone is secreted by the paraventricular nucleus (PVN) of the hypothalamus, binds to corticotropin releasing hormone receptors and stimulates the release of adrenocorticotrophic hormone from the pituitary gland. Marked reduction in this protein has been observed in association with Alzheimer's disease. Autosomal recessive hypothalamic corticotropin deficiency has multiple and potentially fatal metabolic consequences including hypoglycemia and hepatitis. In addition to production in the hypothalamus, this protein is also synthesized in peripheral tissues, such as T lymphocytes, and is highly expressed in the placenta. In the placenta it is a marker that determines the length of gestation and the timing of parturition and delivery. A rapid increase in circulating levels of the hormone occurs at the onset of parturition, suggesting that, in addition to its metabolic functions, this protein may act as a trigger for parturition.

### Overview

Product Name	Anti-Corticotropin Releasing Factor/CRH Antibody Picoband®
Reactive Species	Human, Mouse
Description	Boster Bio Anti-Corticotropin Releasing Factor/CRH Antibody Picoband® catalog # A00629. Tested in IHC, WB applications. This antibody reacts with Human, Mouse. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05 mg NaN <sub>3</sub> .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P06850

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human CRH, identical to the related mouse and rat sequences.
Predicted Reactive Species	Human

Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.1-0.5ug/ml, Human, Mouse Immunohistochemistry(Paraffin-embedded Section), 0.5-1 ug/ml, Human, By Heat

## 4 Publications Citing This Product

1. PubMed ID: 10.3389/fphar.2019.01660, Icarin Protects Hippocampal Neurons From Endoplasmic Reticulum Stress and NF-kappaB Mediated Apoptosis in Fetal Rat Hippocampal Neurons and Asthma Rats
2. PubMed ID: 10.3892/ijmm\_00000225, Activity of the 5-HT1A receptor is involved in the alteration of glucocorticoid receptor in hippocampus and corticotropin-releasing factor in hypothalamus in SPS rats
3. PubMed ID: 10.1007/s11011-018-0255-x, Endocannabinoid hydrolase and cannabinoid receptor 1 are involved in the regulation of hypothalamus-pituitary-adrenal axis in type 2 diabetes

Visit [bosterbio.com/anti-corticotropin-releasing-factor-crh-picoband-trade-antibody-a00629-boster.html](http://bosterbio.com/anti-corticotropin-releasing-factor-crh-picoband-trade-antibody-a00629-boster.html) to see all 4 publications.

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