## RDSYSTEMS a biotechne brand

# Human Pro-Corticoliberin/Pro-CRH Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF5805

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human Pro-Corticoliberin/Pro-CRH in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Pro-Corticoliberin/Pro-CRH Leu25-Lys196 Accession # P06850
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

#### APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.			
	Recommended Concentration	Sample	
Western Blot	1 µg/mL	See Below	

#### DATA

kDa

37 -

17 -

Wester

n Blot	
Hypothalamus	Detection of Human Pro-Corticoliberin/Pro-CRH by Western Blot. Western blot shows lysates of human cerebellum and hypothalamus tissue. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human Pro- Corticoliberin/Pro-CRH Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5805) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for Pro-Corticoliberin/Pro-CRH at approximately 20 KDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.
- Pro-Corticoliberin	

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C	
Stability & Storage	<ul> <li>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</li> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months20 to -70 °C under sterile conditions after reconstitution.</li> </ul>	

#### BACKGROUND

Pro-Corticoliberin (also Pro-CRF and Pro-CRH) is a predicted 19 kDa member of the CRF/Urotensin I family of hormones. It is expressed by placental synctiotrophoblasts, zona fasciculata adrenal cells and paraventricular neurons, and is induced by glucocorticoids. Pro-Corticoliberin is the precursor to a mature, 41 amino acid (aa) amidated Corticoliberin that induces pituitary ACTH and subsequent cortisol production by the adrenal. Human Pro-Corticoliberin is 170 aa in length (aa 25-194). If unprocessed, it undergoes N-terminal amidation to generate a polypeptide 168 aa in length (aa 27-194). Secreted Pro-Corticoliberin is both bioactive and binds to 37 kDa Corticoliberin-PB. In the placenta, Pro-Corticoliberin is only occasionally cleaved to generate mature Corticoliberin (aa 152-192); in the brain, it undergoes active internal proteolysis to generate multiple fragments, including the 5 kDa mature peptide. Over aa 25-196, human Pro-Corticoliberin shares 78% aa identity with mouse Pro-Corticoliberin.

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