

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
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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 syncytiotrophoblasts, 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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