

ACTH Recombinant Polyclonal Antibody (12HCLC)

Catalog Number710317

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Mouse
Host/Isotope	Rabbit / IgG	<div>Tested ApplicationsDilution * Western Blot (WB)2-3 µg/mL</div>	
Class	Recombinant Polyclonal		
Type	Antibody	<div>* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.</div>	
Clone	12HCLC		
Immunogen	Peptide corresponding to amino acids 147-172 of human Adrenocorticotrophic Hormone		
Conjugate	Unconjugated		
Form	Liquid		
Concentration	0.5 mg/mL		
Purification	Protein A		
Storage buffer	PBS		
Contains	0.09% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

This antibody is predicted to react with mouse, rat, non-human primate, rabbit and porcine based on sequence homology. Recombinant rabbit polyclonal antibodies are unique offerings from Thermo Fisher Scientific. They are comprised of a selection of multiple different recombinant monoclonal antibodies, providing the best of both worlds - the sensitivity of polyclonal antibodies with the specificity of monoclonal antibodies - all delivered with the consistency only found in a recombinant antibody. While functionally the same as a polyclonal antibody - recognizing multiple epitope sites on the target and producing higher detection sensitivity for low abundance targets - a recombinant rabbit polyclonal antibody has a known mixture of light and heavy chains. The exact population can be produced in every lot, circumventing the biological variability typically associated with polyclonal antibody production.

Background/Target Information

ATCH (adrenocorticotrophic hormone) is a hormone which plays a major role in stimulating the adrenal cortex. It is formed through cleavage of the polypeptide precursor proopiomelanocortin (POMC), which also results in several other cleavage products including MSH, ACTH, and beta endorphin. ATCH is secreted from the anterior pituitary in response to the corticotropin-releasing hormone from the hypothalamus. It stimulates the secretion of glucocorticoids like cortisol, but has little control over the stimulation of mineralocorticoids like aldosterone, which is another major hormone of the adrenal cortex.

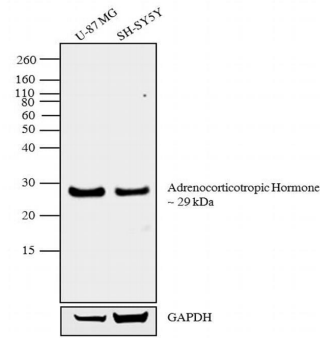
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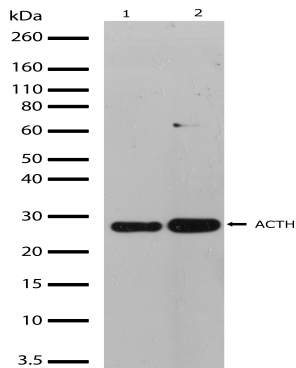
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Product Images For ACTH Recombinant Polyclonal Antibody (12HCLC)



ACTH Antibody (710317) in WB

Western blot analysis of Adrenocorticotrophic Hormone was performed using whole cell extracts (30 µg lysate) of U-87MG (Lane 1) and membrane enriched extract of SH-SY5Y (Lane 2). The blots were probed with Anti-Adrenocorticotrophic Hormone Recombinant Rabbit Polyclonal Antibody (Product # 710317, 2 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). A 29 kDa band corresponding to Adrenocorticotrophic Hormone was observed across the cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 10 % Bis-Tris gel (Product # NP0302BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5% skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).



ACTH Antibody (710317) in WB

Western blot analysis of ACTH in NIH-3T3 whole cell extracts using an ACTH Recombinant Rabbit Polyclonal Antibody (Product # 710317) at a dilution of 2 µg/mL. Samples were detected using chemiluminescence (ECL). Results show a band at ~26kDa.

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