

ABfinity™ ACTH Recombinant Rabbit Monoclonal Antibody

Store at 2°C to 8°C (short-term), or -20°C (long-term)

Catalog Number: 701293

Pub. No. MAN0007430 **Rev.** 1.00

Clonality: Monoclonal	Quantity: 100 µg	Volume: 200 µL	Concentration: 0.5 mg/mL
Host/Class: Rabbit IgG	Reactivity: Human ACTH	Predicted Reactivity: Human	

Product Description

ACTH (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. ACTH 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.

Product Specifications

Immunogen:	Peptide corresponding to amino acids 147–172 of human ACTH
Alternate Names:	Adrenocorticotrophic hormone
Apparent MW:	~29 (POMC precursor) kDa
Gene ID:	5443
Protein Accession No.:	P01189
Sequence Identity:	Human
Sequence Homology:	Mouse, Rat, Monkey, Rabbit, Pig
Clone/PAD:	9H5L7
Lot:	See product label

Product Applications

Application	Species	Test Material	Concentration
Western blotting	Mouse	Brain	1–3 µg/ mL
Indirect ELISA	Rat	Brain	0.5 × 10 ⁻³ to 10 µg/mL

Storage and Handling

Store the antibody at 2°C to 8°C for up to 1 month, -20°C for long storage. Avoid repeated freezing and thawing.

Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.

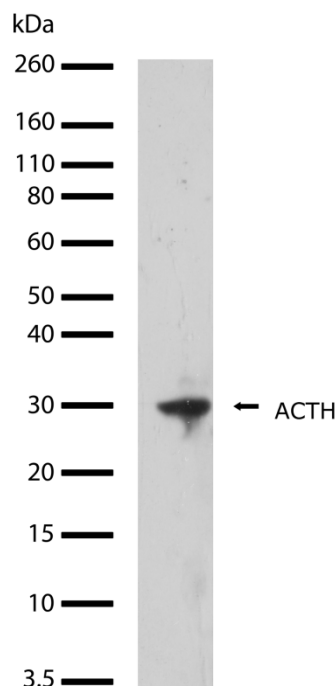


Figure 1 Western blot analysis of ABfinity™ ACTH Recombinant Rabbit Monoclonal Antibody (Cat. no. 701293). Western blot analysis was performed on whole tissue extracts from mouse brain. Endogenous levels of ACTH was detected at ~29 kDa using ABfinity™ ACTH Recombinant Rabbit Monoclonal Antibody at a concentration of 1 µg/mL. The blot was developed using enhanced chemiluminescence (ECL) method.

Storage Buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.



CAUTION! Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. SDSs are available at www.lifetechnologies.com/support.

For research use only. Not for use in diagnostic procedures.

Manufacturing Site • 7335 Executive Way • Frederick • MD 21704 • E-mail: techsupport@lifetech.com

Product Documentation

To obtain a Certificate of Analysis or SDS, visit www.lifetechnologies.com/support.

Related Products

Product Name	Quantity	Catalog No.
iBlot® Dry Blotting System	1 unit	IB1001
WesternBreeze® Chromogenic Kit Anti-Rabbit	1 kit	WB7105
WesternBreeze® Chemiluminescent Kit, Anti-Rabbit	1 kit	WB7106

Limited Product Warranty

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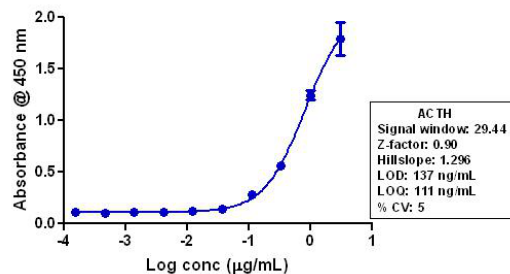


Figure 2 Indirect ELISA of ABfinity™ ACTH Recombinant Rabbit Monoclonal Antibody (Cat. no. 701293).

Indirect ELISA was performed using various dilutions of ABfinity™ ACTH Recombinant Rabbit Monoclonal Antibody to detect ACTH protein in Rat brain lysate coated onto the plate. A non-linear regression analysis was performed (4 PL), LOD and LOQ for the antibody was determined.

Explanation of symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

Limited Use Label License No. 327: Recombinant Antibody Technology

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