

Datasheet: 0178-0204

**BATCH NUMBER 166437**

<b>Description:</b>	RABBIT ANTI HUMAN ACTH
<b>Specificity:</b>	ACTH
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	0.5 ml

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Frozen	▪			1/100 - 1/200
Immunohistology - Paraffin	▪			1/100 - 1/200
ELISA	▪			1/500 - 1/1000
Immunofluorescence	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

### Target Species

Human

### Species Cross Reactivity

Reacts with: Rat

Based on sequence similarity, is expected to react with: Broad

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### Product Form

Purified Ig - liquid

### Preparation

Purified Ig prepared by affinity chromatography on Protein G

### Buffer Solution

Phosphate buffered saline

<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	5.0 mg/ml
<b>Immunogen</b>	Synthetic peptide corresponding to the amino acids 1-24 (SYSMEHFRWGKPVGKKRRPVKVYP) of ACTH conjugated to Keyhole limpet Haemocyanin.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P01189</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">5443</a>    POMC    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_620352
<b>Specificity</b>	<p><b>Rabbit anti Human ACTH antibody</b> recognizes human adrenocorticotrophic hormone, also known as corticotrophin. ACTH is a 4.5 kDa hormone derived from cleavage of pro-opiomelanocortin (POMC), produced in the pituitary gland in response to corticotrophin releasing hormone (CRH) activity and functions to stimulate release of adrenal cortisol.</p> <p>Rabbit anti Human ACTH polyclonal antibody is directed against the N-terminal portion of adrenocorticotrophic hormone and also recognizes the ACTH cleavage fragment α-melanocyte stimulating hormone (α-MSH), responsible for melanin pigmentation control in most vertebrate species (<a href="#">Fiordeliso et al. 2006</a>). Rabbit anti Human ACTH does not recognize the C-terminal ACTH cleavage product, corticotropin-like intermediary peptide (CLIP).</p>
<b>Histology Positive Control Tissue</b>	ACTH-containing cells of the anterior pituitary gland.
<b>References</b>	<ol style="list-style-type: none"> <li>Osamura, R.Y. <i>et al.</i> (1980) Adrenocorticotrophic hormone cells and immunoreactive beta-endorphin cells in the human pituitary gland: normal and pathologic conditions studied by the peroxidase-labeled antibody method. <a href="#">Am J Pathol. 99 (1): 105-24.</a></li> <li>Fiordeliso, T. <i>et al.</i> (2006) Cells of proopiomelanocortin lineage from the rodent anterior pituitary lack sexually dimorphic expression of neurofilaments. <a href="#">Neuroendocrinology. 83:360-70.</a></li> <li>Farris, G.M. <i>et al.</i> (2007) Recombinant rat and mouse growth hormones: risk assessment of carcinogenic potential in 2-year bioassays in rats and mice. <a href="#">Toxicol Sci. 97: 548-61.</a></li> </ol>
<b>Storage</b>	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/0178-0204">https://www.bio-rad-antibodies.com/SDS/0178-0204</a> 10040
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)  
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

### Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
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