

Datasheet: 0178-0204

BATCH NUMBER 160926

Description:	RABBIT ANTI HUMAN ACTH
Specificity:	ACTH
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	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

Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	5.0 mg/ml
Immunogen	Synthetic peptide corresponding to the amino acids 1-24 (SYSMEHFRWGKPVGKKRRPVKVYP) of ACTH conjugated to Keyhole limpet Haemocyanin.
External Database Links	<p>UniProt: P01189 Related reagents</p> <p>Entrez Gene: 5443 POMC Related reagents</p>
RRID	AB_620352
Specificity	<p>Rabbit anti Human ACTH antibody 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 (Fiordeliso et al. 2006). Rabbit anti Human ACTH does not recognize the C-terminal ACTH cleavage product, corticotropin-like intermediary peptide (CLIP).</p>
Histology Positive Control Tissue	ACTH-containing cells of the anterior pituitary gland.
References	<ol style="list-style-type: none"> 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. Am J Pathol. 99 (1): 105-24. Fiordeliso, T. <i>et al.</i> (2006) Cells of proopiomelanocortin lineage from the rodent anterior pituitary lack sexually dimorphic expression of neurofilaments. Neuroendocrinology. 83:360-70. 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. Toxicol Sci. 97: 548-61.
Storage	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.

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

Recommended Secondary Antibodies

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

Recommended Useful Reagents

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

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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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Printed on 19 Jan 2024