

Datasheet: 0178-0204

Description:	RABBIT ANTI HUMAN ACTH
Specificity:	ACTH
Other names:	ADRENOCORTICOTROPIC HORMONE
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.
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**

UniProt:

[P01189](#) [Related reagents](#)

Entrez Gene:

[5443](#) POMC [Related reagents](#)

Specificity

Rabbit anti Human ACTH antibody recognizes human adrenocorticotrophic hormone, also known as corticotrophin. ACTH is a 4.5kDa 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.

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).

**Histology Positive
Control Tissue**

ACTH-containing cells of the anterior pituitary gland.

References

1. Osamura, R.Y. *et al.* (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.](#)
2. Fiordeliso, T. *et al.* (2006) Cells of proopiomelanocortin lineage from the rodent anterior pituitary lack sexually dimorphic expression of neurofilaments. [Neuroendocrinology. 83:360-70.](#)
3. Farris, G.M. *et al.* (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

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation available at:
Material Safety Datasheet Documentation #10040 available at:
<https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Sheep Anti Rabbit IgG (STAR54...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)

Recommended Useful Reagents

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

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

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