

## Datasheet: 0178-0149G

|                      |                             |
|----------------------|-----------------------------|
| <b>Description:</b>  | MOUSE ANTI HUMAN ACTH       |
| <b>Specificity:</b>  | ACTH                        |
| <b>Other names:</b>  | ADRENOCORTICOTROPIC HORMONE |
| <b>Format:</b>       | Purified                    |
| <b>Product Type:</b> | Monoclonal Antibody         |
| <b>Clone:</b>        | 57 (BGN/1388/66)            |
| <b>Isotype:</b>      | IgG1                        |
| <b>Quantity:</b>     | 1 mg                        |

## 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 |
|--------------------------------|-----|----|----------------|--------------------|
| Flow Cytometry                 |     |    | ▪              |                    |
| Immunohistology - Frozen       |     |    | ▪              |                    |
| Immunohistology - Paraffin (1) | ▪   |    |                | 1/100 - 1/200      |
| ELISA                          | ▪   |    |                |                    |
| Immunoprecipitation            |     |    | ▪              |                    |
| Western Blotting               |     |    | ▪              |                    |
| 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 appropriate negative/positive controls.

**(1) This product requires protein digestion pre-treatment of paraffin sections e.g. trypsin or pronase.**

### Target Species

Human

### Species Cross Reactivity

Reacts with: Rat

**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.

|                                       |  |
|---------------------------------------|--|
| <b>Product Form</b>                   | Purified IgG - liquid  |
| <b>Preparation</b>                    | Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant  |
| <b>Buffer Solution</b>                | Phosphate buffered saline  |
| <b>Preservative Stabilisers</b>       | 0.09% Sodium Azide (NaN <sub>3</sub> )   |
| <b>Carrier Free</b>                   | Yes  |
| <b>Approx. Protein Concentrations</b> | IgG concentration 1.0mg/ml   |
| <b>Immunogen</b>                      | Synthetic peptide corresponding to the amino acids 1 - 24 (SYSMEHFRWGKPVGKKRRPVKVYP) of the human ACTH conjugated to Keyhole Limpet Haemocyanin.   |
| <b>External Database Links</b>        | <p><b>UniProt:</b><br/> <a href="#">P01189</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">5443</a>    POMC    <a href="#">Related reagents</a></p>  |
| <b>RRID</b>                           | AB_609790  |
| <b>Specificity</b>                    | <p><b>Mouse anti Human ACTH antibody (Clone 57, BGN/1388/66)</b> recognizes 1-24 ACTH (Synacthen) which, as a synthetic analogue of naturally-occurring Adrenocorticotrophic Hormone, can be used to measure adrenal reserve and for the diagnosis of adrenal insufficiency by acute adrenocortical stimulation.</p> <p>ACTH, released from the anterior pituitary gland in response to corticotropin-releasing hormone from the hypothalamus, acts on the adrenal cortex to stimulate the production of corticosteroids such as cortisol, involved in the response to stress. Administration of 1-24 ACTH increases blood pressure, believed to be attributed to an increase in ACTH-stimulated cortisol secretion, in association with increased cardiac output.</p> <p><b>Mouse anti Human ACTH antibody</b> does not recognize 17-39 ACTH (CLIP). It does cross-reacts with rat N-terminal ACTH.</p> |
| <b>References</b>                     | 1. Zhou, M <i>et al.</i> (2016) Localization of ATP-sensitive K <sup>+</sup> channel subunits in rat pituitary gland. <a href="#">Arch Histol Cytol. 76 (1): 53-66.</a>  |
| <b>Further Reading</b>                | 1. Hatakeyama, H. <i>et al.</i> (2000) Functional adrenocorticotrophic hormone receptor in cultured human vascular endothelial cells : possible role in control of blood pressure. <a href="#">Hypertension. 36 (5): 862-5.</a>  |

**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.

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**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/0178-0149G>  
10040

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) [HRP](#)  
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)  
Goat Anti Mouse IgG (STAR70...) [FITC](#)  
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)  
Goat Anti Mouse IgG (STAR76...) [RPE](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),  
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),  
[FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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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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