

Datasheet: 0178-0149G

BATCH NUMBER 163114

Description:	MOUSE ANTI HUMAN ACTH
Specificity:	ACTH
Other names:	ADRENOCORTICOTROPIC HORMONE
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	57 (BGN/1388/66)
Isotype:	IgG1
Quantity:	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.

	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	<p>Reacts with: Rat</p> <p>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.</p>

Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Synthetic peptide corresponding to the amino acids 1 - 24 (SYSMEHFRWGKPVGKKRRPVKVYP) of the human 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_609790
Specificity	<p>Mouse anti Human ACTH antibody (Clone 57, BGN/1388/66) 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>Mouse anti Human ACTH antibody does not recognize 17-39 ACTH (CLIP). It does cross-reacts with rat N-terminal ACTH.</p>
References	1. Zhou, M <i>et al.</i> (2016) Localization of ATP-sensitive K ⁺ channel subunits in rat pituitary gland. Arch Histol Cytol. 76 (1): 53-66.
Further Reading	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. Hypertension. 36 (5): 862-5.
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/0178-0149G 10040
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
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 (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

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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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