

Datasheet: 2330-4809

Description:	MOUSE ANTI CORTISOL
Specificity:	CORTISOL
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	C13 (BGN/C13)
Isotype:	IgG3
Quantity:	0.2 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
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			1/50 - 1/1500
Western Blotting			▪	

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	Broad
Species Cross Reactivity	Reacts with: Human N.B. Antibody reactivity and working conditions may vary between species.
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 1.0 mg/ml
Immunogen	Cortisol conjugated to bovine serum albumin.

Specificity **Mouse anti cortisol monoclonal antibody, clone C13** recognizes cortisol, a glucocorticoid hormone synthesized from cholesterol by the adrenal cortex. It is released in response to pituitary adenocorticotrophic hormone (ACTH) which is, in turn, regulated by corticotrophin releasing factor (CRF). High levels of cortisol act to regulate the release of ACTH and CRF via negative feedback inhibition.

The release of cortisol stimulates the conversion of proteins to carbohydrates, raises blood sugar levels and promotes glycogen storage in the liver.

The following cross reactivities were observed:

Cortisol	100%
Prednisolone	30%
Cortisone	25%
Corticosterone	10%
11-desoxycortisol	5%

No reactivity was observed with 17-a-OH-progesterone.

References

1. Arya, S.K. *et al.* (2010) Antibody functionalized interdigitated micro-electrode (IDmicroE) based impedimetric cortisol biosensor. [Analyst. 135 \(8\): 1941-6.](#)
2. Arya, S.K. and Bhansali, S. (2012) Anti-Prostate Specific Antigen (Anti-PSA) Modified Interdigitated Microelectrode-Based Impedimetric Biosensor for PSA Detection [Biosensors Journal 1: H110601](#)
3. Arya, S.K. *et al.* (2010) Dithiobis(succinimidyl propionate) modified gold microarray electrode based electrochemical immunosensor for ultrasensitive detection of cortisol. [Biosens Bioelectron. 25: 2296-301.](#)
4. Arya, S.K. *et al.* (2011) Polyaniline protected gold nanoparticles based mediator and label free electrochemical cortisol biosensor. [Biosens Bioelectron. 28 \(1\): 166-73.](#)
5. Kaushik, A. *et al.* (2013) Mediator and label free estimation of stress biomarker using electrophoretically deposited Ag@AgO-polyaniline hybrid nanocomposite. [Biosens Bioelectron. 50: 35-41.](#)

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 #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)

[RPE](#)

Goat Anti Mouse IgG IgA IgM (STAR87...)
[Alk. Phos.](#), [HRP](#)

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@549](#),
[DyLight@649](#), [DyLight@680](#), [DyLight@800](#),
[FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Goat Anti Mouse IgG (STAR77...) [HRP](#)

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR8...) [DyLight@800](#)

Goat Anti Mouse IgG (STAR70...) [FITC](#)

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

Human Anti Mouse IgG3 (HCA039...) [FITC](#), [HRP](#), [RPE](#)

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