

Datasheet: 2330-4809

BATCH NUMBER 1806

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	<p>Reacts with: Human</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 1.0 mg/ml										
Immunogen	Cortisol conjugated to bovine serum albumin.										
RRID	AB_618933										
Specificity	<p>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.</p> <p>The release of cortisol stimulates the conversion of proteins to carbohydrates, raises blood sugar levels and promotes glycogen storage in the liver.</p> <p>The following cross reactivities were observed:</p> <table border="0"> <tr> <td>Cortisol</td> <td>100%</td> </tr> <tr> <td>Prednisolone</td> <td>30%</td> </tr> <tr> <td>Cortisone</td> <td>25%</td> </tr> <tr> <td>Corticosterone</td> <td>10%</td> </tr> <tr> <td>11-desoxycortisol</td> <td>5%</td> </tr> </table> <p>No reactivity was observed with 17-a-OH-progesterone.</p>	Cortisol	100%	Prednisolone	30%	Cortisone	25%	Corticosterone	10%	11-desoxycortisol	5%
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Prednisolone	30%										
Cortisone	25%										
Corticosterone	10%										
11-desoxycortisol	5%										
References	<ol style="list-style-type: none"> 1. Arya, S.K. <i>et al.</i> (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. <i>et al.</i> (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. <i>et al.</i> (2011) Polyaniline protected gold nanoparticles based mediator and label free electrochemical cortisol biosensor. Biosens Bioelectron. 28 (1): 166-73. 5. Kaushik, A. <i>et al.</i> (2013) Mediator and label free estimation of stress biomarker using electrophoretically deposited Ag@AgO-polyaniline hybrid nanocomposite. Biosens Bioelectron. 50: 35-41. 										
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>										

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/2330-4809 10040
Regulatory	For research purposes only

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
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
Rabbit Anti Mouse IgG (STAR9...)	FITC

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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 25 Mar 2023