

Datasheet: MCA1026

BATCH NUMBER 172083

Description:	MOUSE ANTI hCG (ALPHA 4 EPITOPE)
Specificity:	hCG (ALPHA 4 EPITOPE)
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	INN-hFSH-132
Isotype:	IgG1
Quantity:	0.5 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)	▪			
ELISA	▪			1ng/ml - 30ng/ml
Immunoprecipitation	▪			
Western Blotting	▪			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1) This product requires antigen retrieval using steam heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	0.09% sodium azide (NaN ₃)

Stabilisers

Approx. Protein Concentrations IgG concentration 1 mg/ml

Immunogen Human Follicle Stimulating Hormone (FSH).

External Database Links

UniProt:

[P01215](#) [Related reagents](#)

Entrez Gene:

[1081](#) CGA [Related reagents](#)

RRID AB_321599

Fusion Partners Spleen cells from immunized mice were fused with cells of the X63-Ag8.653 myeloma cell line.

Specificity **Mouse anti hCG (Alpha 4 Epitope) antibody, clone INN-hFSH-132** is a high affinity antibody recognising the alpha 4 epitope of the alpha-subunit of Human Chorionic Gonadotrophin (hCG), hLH, hFSH, hTSH and free alpha-subunit.

The recognised epitope comprises amino-acids alpha 15 to alpha 22 of the human sequence.

Mouse anti hCG (Alpha 4 Epitope) antibody, clone INN-hFSH-132 will not cross-react with glycoprotein hormones of various animal species.

References

- Berger, P. *et al.* (1988) Antigenic features of human follicle stimulating hormone delineated by monoclonal antibodies and construction of an immunoradiometric assay. [Endocrinology. 123 \(5\): 2351-9.](#)
 - Berger, P. *et al.* (1990) Monoclonal antibodies against the free subunits of human chorionic gonadotrophin. [J Endocrinol. 125 \(2\): 301-9.](#)
 - Dirnhofer, S. *et al.* (1994) Free alpha subunit of human chorionic gonadotrophin: molecular basis of immunologically and biologically active domains. [J Endocrinol. 140 \(1\): 145-54.](#)
 - Untergasser, G. *et al.* (2001) Seminal plasma factors induce in vitro PRL secretion in smooth muscle cells of the human prostate. [J Clin Endocrinol Metab. 86: 5577-84.](#)
 - Zimmermann, G. *et al.* (2009) Epithelial human chorionic gonadotropin is expressed and produced in human secretory endometrium during the normal menstrual cycle. [Biol Reprod. 80:1053-65.](#)
 - Zenzmaier, C. *et al.* (2011) Decreased levels of genuine large free hCG alpha in men presenting with abnormal semen analysis. [Reprod Biol Endocrinol. 9: 114.](#)
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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/MCA1026
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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

Recommended Negative Controls

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

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M426361:231221'

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