

Datasheet: MCA951ST

Description:	MOUSE ANTI HUMAN INHIBIN ALPHA
Specificity:	INHIBIN ALPHA
Format:	S/N
Product Type:	Monoclonal Antibody
Clone:	R1
Isotype:	IgG2a
Quantity:	0.2 ml

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	▪			Neat - 1/100
Immunohistology - Paraffin (1)	▪			Neat - 1/100

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 heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species

Human

Species Cross Reactivity

Reacts with: Bovine, Sheep

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.

Product Form

Tissue Culture Supernatant - liquid

Preservative Stabilisers

0.1% Sodium Azide (NaN₃)

Immunogen

Synthetic peptide comprised of amino acids 1-32 of human inhibin alpha.

External Database
Links

UniProt:

[P05111](#) [Related reagents](#)

Entrez Gene:

[3623](#) INHA [Related reagents](#)

RRID

AB_324480

Specificity

Mouse anti Human inhibin alpha antibody, clone R1 recognizes the alpha subunit of the 32 kDa human inhibin. A glycoprotein which acts to suppress follicle-stimulating hormone (FSH) secretion ([Groome *et al*, 1990](#)).

Inhibin alpha is expressed in a range of tissues including the endometrium ([Mylonas *et al*, 2004](#)), brain ([Uccella *et al*, 2000](#)), adrenal gland ([McCluggage *et al*, 1998](#)), testis ([Bergh and Cajander, 1990](#)) and ovary ([Cuevas *et al*, 1987](#), Yamoto *et al*, 1992). The antibody may be of value in the differentiation of adrenocortical tumours, placental and gestational trophoblastic lesions, and sex cord stromal tumours ([McCluggage, 2001](#)).

In western blotting of bovine follicular fluid, bands at 20, 44 and 57 kDa were reported under reducing conditions using clone R1 ([Groome *et al*, 1991](#)).

Histology Positive
Control Tissue

Normal human ovary/testis

References

1. Groome, N. & Lawrence, M. (1991) Preparation of monoclonal antibodies to the beta A subunit of ovarian inhibin using a synthetic peptide immunogen. [Hybridoma. 10 \(2\): 309-16.](#)
2. Arora, D.S. *et al*. (1997) Immunohistochemical expression of inhibin/activin subunits in epithelial and granulosa cell tumours of the ovary. [J Pathol. 181 \(4\): 413-8.](#)
3. Mylonas, I. *et al*. (2009) Inhibin-alpha subunit is an independent prognostic parameter in human endometrial carcinomas: analysis of inhibin/activin-alpha, -betaA and -betaB subunits in 302 cases. [Eur J Cancer. 45 \(7\): 1304-14.](#)
4. Schraith, D.F. *et al*. (2003) Alpha-inhibin immunoreactivity in soft-tissue neoplasia. [Mod Pathol. 16 \(12\): 1205-9.](#)
5. Akiyama, T. *et al*. (2009) Pancreatic serous microcystic adenoma with extensive oncocytic change. [Pathol Int. 59 \(2\): 102-6.](#)
6. Choi, Y.L. *et al*. (2000) Immunoexpression of inhibin alpha subunit, inhibin/activin betaA subunit and CD99 in ovarian tumors. [Arch Pathol Lab Med. 124 \(4\): 563-9.](#)
7. Hayashi, K. *et al*. (2003) The activin-follistatin system in the neonatal ovine uterus. [Biol Reprod. 69 \(3\): 843-50.](#)
8. Karlberg, S. *et al*. (2011) Testicular failure and male infertility in the monogenic Mulibrey nanism disorder. [J Clin Endocrinol Metab. 96 \(11\): 3399-407.](#)
9. Vanmontfort, D. *et al*. (1998) cDNA sequence analysis, gene expression and protein localisation of the inhibin alpha-subunit of Australian brushtail possum (*Trichosurus vulpecula*). [J Mol Endocrinol. 21 \(2\): 141-52.](#)
10. Kato, T. *et al*. (2012) Estrogen-producing endometrioid adenocarcinoma resembling sex cord-stromal tumor of the ovary: a review of four postmenopausal cases. [Diagn](#)

[Pathol. 7: 164.](#)

11. Biancani, B. *et al.* (2010) Ovarian interstitial cell tumor in a South American sea lion (*Otaria flavescens*). [J Wildl Dis. 46: 1012-6.](#)
12. Marino, F.E. *et al.* (2014) The inhibin/activin signalling pathway in human gonadal and adrenal cancers. [Mol Hum Reprod. 20 \(12\): 1223-37.](#)
13. Wang Y *et al.* (2016) Follicle Depletion Provides A Permissive Environment for Ovarian Carcinogenesis. [Mol Cell Biol. Jun 27. pii: MCB.00202-16. \[Epub ahead of print\]](#)
14. Canadas A. *et al.* (2016) Multiple Cutaneous Metastasis of a Malignant Leydig Cell Tumour in a Dog [Journal of Comparative Pathology. Jul 5 \[Epub ahead of print\]](#)
15. Bae, G.E. *et al.* (2016) Placenta percreta with small bowel invasion: unusual presentation of abnormal placental adherence [Int J Clin Exp Pathol 9\(7\):7237-43](#)
16. Liang, L. *et al.* (2016) Renal cell carcinoma metastatic to the ovary or fallopian tube: a clinicopathological study of 9 cases. [Hum Pathol. 51: 96-102.](#)
17. Stewart CJ *et al.* (2016) SF1 immunohistochemistry is useful in differentiating uterine tumours resembling sex cord-stromal tumours from potential histological mimics. [Pathology. 48 \(5\): 434-40.](#)
18. Paulini, F. *et al.* (2016) Survival and growth of human preantral follicles after cryopreservation of ovarian tissue, follicle isolation and short-term xenografting. [Reprod Biomed Online. May 13. pii: S1472-6483\(16\)30294-2. \[Epub ahead of print\]](#)
19. Lai, J.P. *et al.* (2015) Isolated Large Cell Calcifying Sertoli Cell Tumor in a Young Boy, not Associated with Peutz-Jeghers Syndrome or Carney Complex. [Ann Clin Lab Res. 3 \(1\): 2.](#)
20. Strehl, J.D. *et al.* (2015) Pattern of SMARCB1 (INI1) and SMARCA4 (BRG1) in poorly differentiated endometrioid adenocarcinoma of the uterus: analysis of a series with emphasis on a novel SMARCA4-deficient dedifferentiated rhabdoid variant. [Ann Diagn Pathol. 19 \(4\): 198-202.](#)
21. Solomon LW & Velez I (2016) S-100 Negative Granular Cell Tumor of the Oral Cavity. [Head Neck Pathol. 10 \(3\): 367-73.](#)
22. Evron, S. *et al.* (2007) Activin betaA in term placenta and its correlation with placental inflammation in parturients having epidural or systemic meperidine analgesia: a randomized study. [J Clin Anesth. 19 \(3\): 168-74.](#)
23. An, S. *et al.* (2015) Granular cell tumor of the gastrointestinal tract: histologic and immunohistochemical analysis of 98 cases. [Hum Pathol. 46 \(6\): 813-9.](#)
24. Bae, G.E. *et al.* (2016) Placenta percreta with small bowel invasion: unusual presentation of abnormal placental adherence. [Int J Clin Exp Pathol 9 \(7\):7237-43.](#)
25. Wakayama, A. *et al.* (2017) Recurrent female adnexal tumor of probable Wolffian origin treated with debulking surgery, imatinib and paclitaxel/carboplatin combination chemotherapy: A case report. [Oncology Letters. Mar 17 \[Epub ahead of print\]](#)
26. Rekhi, B. *et al.* (2012) Alveolar soft part sarcoma 'revisited': clinicopathological review of 47 cases from a tertiary cancer referral centre, including immunohistochemical expression of TFE3 in 22 cases and 21 other tumours. [Pathology. 44 \(1\): 11-7.](#)
27. Polinas, M. *et al.* (2016) Co-occurrence of a metastatic mammary liposarcoma and an ovarian sex-cord stromal tumor in a dog. [Res Vet Sci. 109: 157-60.](#)

Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee	12 months from date of despatch
------------------	---------------------------------

Health And Safety Information	Material Safety Datasheet documentation #10336 available at: 10336: https://www.bio-rad-antibodies.com/uploads/MSDS/10336.pdf
--------------------------------------	--

Regulatory	For research purposes only
-------------------	----------------------------

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Human Anti Mouse IgG2a (HCA037...)	FITC , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@680 , DyLight@800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
----------------------------------	---	------------------	---	---------------	---

From March 15, 2021, we will no longer supply printed datasheets with our products.
Look out for updates on how to access your digital version at bio-rad-antibodies.com

'M374697:201125'

Printed on 02 Mar 2021