

## Datasheet: MCA951ST

**BATCH NUMBER 173111**

<b>Description:</b>	MOUSE ANTI HUMAN INHIBIN ALPHA
<b>Specificity:</b>	INHIBIN ALPHA
<b>Format:</b>	S/N
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	R1
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	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](http://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 (NaN<sub>3</sub>)

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

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**External Database**

**Links**

**UniProt:**

[P05111](#)    [Related reagents](#)

**Entrez Gene:**

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

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**RRID**

AB\_324480

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**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](#)).

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**Histology Positive Control Tissue**

Normal human ovary/testis

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**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. 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.](#)
4. 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.](#)
5. Miller, D.L. *et al.* (2002) A note on the possibility of identifying Leydig and Sertoli cells by immunohistochemistry in bowhead whales (*Balaena mysticetus*) [J Cetacean Res Manage. 4 \(2\): 149-53.](#)
6. Schraith, D.F. *et al.* (2003) Alpha-inhibin immunoreactivity in soft-tissue neoplasia. [Mod Pathol. 16 \(12\): 1205-9.](#)
7. Hayashi, K. *et al.* (2003) The activin-follistatin system in the neonatal ovine uterus. [Biol Reprod. 69 \(3\): 843-50.](#)
8. 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.](#)
9. 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.](#)
10. Akiyama, T. *et al.* (2009) Pancreatic serous microcystic adenoma with extensive oncocytic change. [Pathol Int. 59 \(2\): 102-6.](#)
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. Karlberg, S. *et al.* (2011) Testicular failure and male infertility in the monogenic Mulibrey nanism disorder. [J Clin Endocrinol Metab. 96 \(11\): 3399-407.](#)
13. Katoh, 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.](#)
14. 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.](#)
15. Marino, F.E. *et al.* (2014) The inhibin/activin signalling pathway in human gonadal and adrenal cancers. [Mol Hum Reprod. 20 \(12\): 1223-37.](#)
16. 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.](#)
17. 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.](#)
18. 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.](#)
19. 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.](#)
20. 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 33\(3\):425-32.](#)
21. 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.](#)
22. 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.](#)
23. Canadas, A. *et al.* (2016) Multiple Cutaneous Metastasis of a Malignant Leydig Cell Tumour in a Dog. [J Comp Pathol. 155 \(2-3\): 181-4.](#)
24. Wang, Y. *et al.* (2016) Follicle Depletion Provides a Permissive Environment for Ovarian Carcinogenesis. [Mol Cell Biol. 36 \(18\): 2418-30.](#)
25. Solomon LW & Velez I (2016) S-100 Negative Granular Cell Tumor of the Oral Cavity. [Head Neck Pathol. 10 \(3\): 367-73.](#)
26. 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](#)
27. Banco, B. *et al.* (2017) Ovarian Embryonal Carcinoma in a Dog. [J Comp Pathol. 157 \(4\): 291-5.](#)
28. 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. [Oncol Lett. 13 \(5\): 3403-8.](#)
29. Gao, Y. *et al.* (2017) Disruption of postnatal folliculogenesis and development of ovarian tumor in a mouse model with aberrant transforming growth factor beta signaling. [Reprod Biol Endocrinol. 15 \(1\): 94.](#)
30. Belotti, E.M. *et al.* (2021) Characterization of an incipient granulosa cell tumour in a Holstein cow: Steroid hormone receptors and coregulators expression. [Anat Histol Embryol. 51\(1\):62-68.](#)
31. Liu, Y. *et al.* (2022) Gastrointestinal Stromal Tumors Mimicking Gynecologic Disease: Clinicopathological Analysis of 20 Cases. [Diagnostics \(Basel\). 12 \(7\):1563.](#)
32. Ciaputa, R. *et al.* (2023) First report of primary testicular leiomyosarcoma in two dogs. [BMC Vet Res. 19 \(1\): 101.](#)
33. Landwehr, L.S. *et al.* (2021) A novel patient-derived cell line of adrenocortical carcinoma shows a pathogenic role of germline MUTYH mutation and high tumour mutational burden. [Eur J Endocrinol. 184 \(6\): 823-35.](#)

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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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10336 available at: <https://www.bio-rad-antibodies.com/SDS/MCA951ST>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

### Recommended Negative Controls

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

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://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](http://bio-rad-antibodies.com/datasheets)  
'M418643:230427'

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