

## Datasheet: MCA951ST

**BATCH NUMBER 165756**

<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.**

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Reacts with: Bovine, Sheep <b>N.B.</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.
<b>Product Form</b>	Tissue Culture Supernatant - liquid
<b>Preservative Stabilisers</b>	0.1% Sodium Azide (NaN <sub>3</sub> )

<b>Immunogen</b>	Synthetic peptide comprised of amino acids 1-32 of human inhibin alpha.
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P05111</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">3623</a> INHA <a href="#">Related reagents</a>
<b>RRID</b>	AB_324480
<b>Specificity</b>	<p><b>Mouse anti Human inhibin alpha antibody, clone R1</b> recognizes the alpha subunit of the 32 kDa human inhibin. A glycoprotein which acts to suppress follicle-stimulating hormone (FSH) secretion (<a href="#">Groome et al. 1990</a>).</p> <p>Inhibin alpha is expressed in a range of tissues including the endometrium (<a href="#">Mylonas et al. 2004</a>), brain (<a href="#">Uccella et al. 2000</a>), adrenal gland (<a href="#">McCluggage et al. 1998</a>), testis (<a href="#">Bergh and Cajander. 1990</a>) and ovary (<a href="#">Cuevas et al. 1987</a>, <a href="#">Yamoto et al. 1992</a>). The antibody may be of value in the differentiation of adrenocortical tumours, placental and gestational trophoblastic lesions, and sex cord stromal tumours (<a href="#">McCluggage. 2001</a>).</p> <p>In western blotting of bovine follicular fluid, bands at 20, 44 and 57 kDa were reported under reducing conditions using clone R1 (<a href="#">Groome et al. 1991</a>).</p>
<b>Histology Positive Control Tissue</b>	Normal human ovary/testis
<b>References</b>	<ol style="list-style-type: none"> <li>1. Groome, N. &amp; Lawrence, M. (1991) Preparation of monoclonal antibodies to the beta A subunit of ovarian inhibin using a synthetic peptide immunogen. <i>Hybridoma</i>. 10 (2): 309-16.</li> <li>2. Arora, D.S. et al. (1997) Immunohistochemical expression of inhibin/activin subunits in epithelial and granulosa cell tumours of the ovary. <i>J Pathol.</i> 181 (4): 413-8.</li> <li>3. Vanmontfort, D. et al. (1998) cDNA sequence analysis, gene expression and protein localisation of the inhibin alpha-subunit of Australian brushtail possum (<i>Trichosurus vulpecula</i>). <i>J Mol Endocrinol.</i> 21 (2): 141-52.</li> <li>4. Choi, Y.L. et al. (2000) Immunoexpression of inhibin alpha subunit, inhibin/activin betaA subunit and CD99 in ovarian tumors. <i>Arch Pathol Lab Med.</i> 124 (4): 563-9.</li> <li>5. Miller, D.L. et al. (2002) A note on the possibility of identifying Leydig and Sertoli cells by immunohistochemistry in bowhead whales (<i>Balaena mysticetus</i>) <i>J Cetacean Res Manage.</i> 4 (2): 149-53.</li> <li>6. Schraith, D.F. et al. (2003) Alpha-inhibin immunoreactivity in soft-tissue neoplasia. <i>Mod Pathol.</i> 16 (12): 1205-9.</li> <li>7. Hayashi, K. et al. (2003) The activin-follistatin system in the neonatal ovine uterus. <i>Biol Reprod.</i> 69 (3): 843-50.</li> <li>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. <i>J Clin Anesth.</i> 19 (3): 168-74.</li> <li>9. Mylonas, I. et al. (2009) Inhibin-alpha subunit is an independent prognostic parameter</li> </ol>

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<b>Storage</b>	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.
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10336 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA951ST">https://www.bio-rad-antibodies.com/SDS/MCA951ST</a> 10336
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC, HRP</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>

### Recommended Negative Controls

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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'M418643:230427'

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