

Datasheet: MCA2246T

Description:	MOUSE ANTI HUMAN AMH
Specificity:	AMH
Other names:	ANTI MULLERIAN HORMONE
Format:	Con S/N
Product Type:	Monoclonal Antibody
Clone:	5/6
Isotype:	IgG1
Quantity:	0.1 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			▪	
Immunohistology - Paraffin (1)	▪			1/20 - 1/40

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 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: Mouse, Sheep, Squirrel monkey, Baboon

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

Concentrated tissue culture supernatant - liquid

Preparation

Concentrated Tissue Culture Supernatant containing 0.1M Tris/HCl pH7.4 and 5-10% foetal calf serum.

Preservative Stabilisers	0.1% sodium azide (NaN ₃)
Immunogen	Synthetic peptide derived from human AMH (VPTAYAGKLLISLSEERISAHHPNMVATEC)
External Database Links	<p>UniProt: P03971 Related reagents</p> <p>Entrez Gene: 268 AMH Related reagents</p>
Synonyms	MIF
RRID	AB_2226470
Fusion Partners	Spleen cells from immunised T/O outbred mice were fused with cells of the SP2/0 myeloma cell line.
Specificity	<p>Mouse anti Human AMH, clone 5/6 recognizes human anti-mullerian hormone (AMH), originally classified as a foetal testicular hormone that inhibits Mullerian duct development. AMH is expressed post-natally by immature Sertoli cells, and to a lesser degree by granulosa cells. AMH plays a role in testicular differentiation and in the regulation of ovarian follicle growth.</p> <p>AMH is a member of the TGF beta superfamily. It is secreted as a homodimeric ~140 kDa disulphide linked precursor that is cleaved to release the mature ~30 kDa homodimer.</p>
Histology Positive Control Tissue	Human ovary
References	<ol style="list-style-type: none"> 1. Van Saen, D. <i>et al.</i> (2010) Meiotic activity in orthotopic xenografts derived from human postpubertal testicular tissue. Hum Reprod. 26: 282-93. 2. Gruijters, M.J <i>et al.</i> (2003) Anti-Müllerian hormone and its role in ovarian function. Mol Cell Endocrinol. 211 (1-2): 85-90. 3. Weenen, C. <i>et al.</i> (2004) Anti-Mullerian hormone expression pattern in the human ovary: potential implications for initial and cyclic follicle recruitment. Mol Hum Reprod10: 77-83. 4. Papanastasopoulos, P. <i>et al.</i> (2009) A case of complete androgen insensitivity syndrome presenting with incarcerated inguinal hernia: an immunohistochemical study. Fertil Steril. 92: 1169.e11-4. 5. Campbell, B.K. (2009) The endocrine and local control of ovarian follicle development in the ewe Anim. Reprod. 6:159-71 6. Walker, M.L. <i>et al.</i> (2009) Ovarian aging in squirrel monkeys (<i>Saimiri sciureus</i>). Reproduction. 138: 793-9. 7. Sobinoff, A.P. <i>et al.</i> (2011) Understanding the villain: DMBA induced pre-antral ovotoxicity involves selective follicular destruction and primordial follicle activation through PI3K/Akt and mTOR signalling. Toxicol Sci. 123: 563-75.

8. Van Saen, D. *et al.* (2011) Can pubertal boys with Klinefelter syndrome benefit from spermatogonial stem cell banking? [Hum Reprod. 27: 323-30.](#)
9. David, A. *et al.* (2012) Effect of cryopreservation and transplantation on the expression of kit ligand and anti-Müllerian hormone in human ovarian tissue [Hum Reprod. 27: 1088-95.](#)
10. Kevenaar, M.E. *et al.* (2006) Serum anti-mullerian hormone levels reflect the size of the primordial follicle pool in mice. [Endocrinology. 147: 3228-34.](#)
11. Campbell, B.K. *et al.* (2012) The role of anti-Müllerian hormone (AMH) during follicle development in a monovulatory species (sheep). [Endocrinology. 153: 4533-43.](#)
12. Amorim, C.A. *et al.* (2013) Successful vitrification and autografting of baboon (*Papio anubis*) ovarian tissue. [Hum Reprod. 28: 2146-56.](#)
13. Parlakgumus, H.A. *et al.* (2015) GNRH agonists and antagonists in rescue for cyclophosphamide-induced ovarian damage: friend or foe? [Arch Gynecol Obstet. 291 \(6\): 1403-10.](#)
14. ThemmenA, P.N. *et al.* (2016) The use of anti-Müllerian hormone as diagnostic for gonadectomy status in dogs. [Theriogenology. 86 \(6\): 1467-74.](#)
15. Saatcioglu, H.D. *et al.* (2016) Control of Oocyte Reawakening by Kit. [PLoS Genet. 12 \(8\): e1006215.](#)
16. Calvopina, J.H. *et al.* (2015) The Aorta-Gonad-Mesonephros Organ Culture Recapitulates 5hmC Reorganization and Replication-Dependent and Independent Loss of DNA Methylation in the Germline. [Stem Cells Dev. 24 \(13\): 1536-45.](#)
17. Camlin, N.J. *et al.* (2016) Maternal Smoke Exposure Impairs the Long-Term Fertility of Female Offspring in a Murine Model. [Biol Reprod. 94 \(2\): 39.](#)
18. Ohta, K. *et al.* (2012) Male differentiation of germ cells induced by embryonic age-specific Sertoli cells in mice. [Biol Reprod. 86 \(4\): 112.](#)
19. Bazzano, M.V. *et al.* (2015) Obesity induced by cafeteria diet disrupts fertility in the rat by affecting multiple ovarian targets. [Reprod Biomed Online. 31 \(5\): 655-67.](#)
20. Díaz, P.U. *et al.* (2018) Altered Expression of Anti-Müllerian Hormone during the Early Stage of Bovine Persistent Ovarian Follicles. [J Comp Pathol. 158: 22-31.](#)
21. Cacciottola, L. *et al.* (2020) Long-Term Advantages of Ovarian Reserve Maintenance and Follicle Development Using Adipose Tissue-Derived Stem Cells in Ovarian Tissue Transplantation. [J Clin Med. 9 \(9\) Sep 15 \[Epub ahead of print\].](#)
22. Lv, X. *et al.* (2020) Effects of Single Transplantation and Multiple Transplantation of Human Umbilical Cord Mesenchymal Stem Cells on the Recovery of Ovarian Function in the Treatment of Premature Ovarian Failure in Mice [Res Sq; Dec 01 \[Preprint, Epub ahead of print\].](#)
23. Wang, F. *et al.* (2013) Human amniotic epithelial cells can differentiate into granulosa cells and restore folliculogenesis in a mouse model of chemotherapy-induced premature ovarian failure. [Stem Cell Res Ther. 4 \(5\): 124.](#)
24. de Michele, F. *et al.* (2018) *In vitro*. formation of the blood-testis barrier during long-term organotypic culture of human prepubertal tissue: comparison with a large cohort of pre/peripubertal boys. [Mol Hum Reprod. 24 \(5\): 271-82.](#)

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 #10451 available at: 10451: https://www.bio-rad-antibodies.com/uploads/MSDS/10451.pdf
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Regulatory	For research purposes only
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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
Rabbit Anti Mouse IgG (STAR9...)	FITC
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

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