

## Datasheet: 7720-1704

<b>Description:</b>	MOUSE ANTI PROGESTERONE
<b>Specificity:</b>	PROGESTERONE
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	9B4
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	1 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			1/50
ELISA	▪			
Western Blotting			▪	

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 the appropriate negative/positive controls.

**(1) Progesterone antibody 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>	Broad
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from ascites
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )

<b>Approx. Protein Concentrations</b>	0.5 mg/ml
<b>Immunogen</b>	Progesterone conjugated to bovine serum albumin at position 3.
<b>RRID</b>	AB_620620
<b>Specificity</b>	<p><b>Mouse anti progesterone antibody, clone 9B4</b> is specific for progesterone, a steroid hormone synthesized from the cholesterol derivative, pregnenolone, in the cortex of the adrenal gland.</p> <p>Progesterone is secreted by the <i>corpus luteum</i> and acts to prepare the endometrium for the implantation of a fertilized egg. During pregnancy, it is secreted by the placenta in order to prevent spontaneous abortion and to stimulate the development of mammary tissue to produce milk. Progesterone is available as a pharmaceutical that can be used to treat menstrual disorders and for the prevention of miscarriage.</p> <p>Mouse anti progesterone antibody, clone 9B4 does not cross react with cortisol, estradiol, estriol and testosterone.</p>
<b>Histology Positive Control Tissue</b>	Breast carcinoma and normal young ovarian tissue.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Cahill, D.J. <i>et al.</i> (2003) Pre-ovulatory granulosa cells of infertile women with endometriosis are less sensitive to luteinizing hormone. <a href="#">Am J Reprod Immunol. 49 (2): 66-9.</a></li> <li>2. Alexandre-Pires, G. <i>et al.</i> (2014) Morphological aspects and expression of estrogen and progesterone receptors in the interdigital sinus in cyclic ewes. <a href="#">Microsc Res Tech. 77 (4): 313-25.</a></li> <li>3. Daems, D. <i>et al.</i> (2017) Competitive inhibition assay for the detection of progesterone in dairy milk using a fiber optic SPR biosensor. <a href="#">Anal Chim Acta. 950: 1-6.</a></li> <li>4. Nguyen, T.M.D. <i>et al.</i> (2019) Inhibition by fluoxetine of LH-stimulated cyclic AMP synthesis in tumor Leydig cells partly involves AMPK activation. <a href="#">PLoS One. 14 (6): e0217519.</a></li> <li>5. Fanelli, D. <i>et al.</i> (2019) Studies on the Use of Prostaglandin F2<math>\alpha</math> and Gonadotropin-Releasing Hormone Analogs for Timed Artificial Insemination in Jennies <a href="#">J Equine Vet Sci. 74: 36-41.</a></li> <li>6. Nguyen, T.M.D. <i>et al.</i> (2024) Single-chain human follicle-stimulating hormone with a di-N-glycosylated linker. <a href="#">Theriogenology. 224: 50-57.</a></li> </ol>
<b>Storage</b>	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch

**Health And Safety Information**      Material Safety Datasheet documentation #10040 available at:  
<https://www.bio-rad-antibodies.com/SDS/7720-1704>  
10040

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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](#)  
Goat Anti Mouse IgG (STAR70...)      [FITC](#)  
Rabbit Anti Mouse IgG (STAR13...)      [HRP](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR9...)      [FITC](#)  
Goat Anti Mouse IgG (STAR77...)      [HRP](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),  
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),  
[FITC](#), [HRP](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
'M429994:240501'

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