

Datasheet: 7720-1704

Description:	MOUSE ANTI PROGESTERONE
Specificity:	PROGESTERONE
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	9B4
Isotype:	IgG1
Quantity:	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.

	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.

Target Species	Broad
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	0.5 mg/ml
Immunogen	Progesterone conjugated to bovine serum albumin at position 3.
Specificity	Mouse anti progesterone antibody, clone 9B4 is specific for progesterone, a steroid hormone synthesized from the cholesterol derivative, pregnenolone, in the cortex of the adrenal gland.

Progesterone is secreted by the *corpus luteum* 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.

Mouse anti progesterone antibody, clone 9B4 does not cross react with cortisol, estradiol, estriol and testosterone.

Histology Positive Control Tissue

Breast carcinoma and normal young ovarian tissue.

References

1. Cahill, D.J. *et al.* (2003) Pre-ovulatory granulosa cells of infertile women with endometriosis are less sensitive to luteinizing hormone. [Am J Reprod Immunol. 49 \(2\): 66-9.](#)
2. Alexandre-Pires, G. *et al.* (2014) Morphological aspects and expression of estrogen and progesterone receptors in the interdigital sinus in cyclic ewes. [Microsc Res Tech. 77 \(4\): 313-25.](#)
3. Daems, D. *et al.* (2017) Competitive inhibition assay for the detection of progesterone in dairy milk using a fiber optic SPR biosensor. [Anal Chim Acta. 950: 1-6.](#)

Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

- | | |
|---|---|
| Goat Anti Mouse IgG (STAR76...) | RPE |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | Alk. Phos. , HRP |
| Goat Anti Mouse IgG (H/L) (STAR117...) | Alk. Phos. , DyLight@488 , DyLight@549 ,
DyLight@649 , DyLight@680 , DyLight@800 ,
FITC , HRP |
| Rabbit Anti Mouse IgG (STAR9...) | FITC |
| Goat Anti Mouse IgG (STAR77...) | HRP |
| Rabbit Anti Mouse IgG (STAR12...) | RPE |
| Goat Anti Mouse IgG (Fc) (STAR120...) | FITC , HRP |
| Rabbit Anti Mouse IgG (STAR8...) | DyLight@800 |
| Goat Anti Mouse IgG (STAR70...) | FITC |
| Rabbit Anti Mouse IgG (STAR13...) | HRP |
| Human Anti Mouse IgG1 (HCA036...) | HRP |

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