

Datasheet



Mouse mAb to **Progesterone**
Clone **EBS-O-049**
Isotype **IgG1-κ**

Source

A BALB/c mouse was immunized with Progesterone-11a-hemisuccinate conjugated to BSA (Progesterone-11a-HMS-BSA). Fusion partner: X63-Ag8-653.

Specifications

EBS-O-049 is specific for progesterone. It exhibits minimal cross reactivity with related compounds in ELISA. It reacts with Progesterone-11a-HMS-BSA: 100%; 5-beta-Pregnane-3,20-dione: 48%; 5-alpha-Pregnane-3,20-dione: 26.4%; 17-alpha-Hydroxyprogesterone: 2.5%; 20-alpha-Hydroxyprogesterone: 0.04%. Progesterone is 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 to prevent spontaneous abortion and to stimulate the development of mammary tissue to produce milk. Thus, progesterone plays a central role in the reproductive events associated with the establishment and maintenance of pregnancy. Luteinized theca cells of normal ovary secrete progesterone.

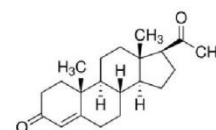


Figure 1: Molecular structure of progesterone

Species reactivity

Positive: All species.

Applications

Determination of progesterone levels.

ELISA
+

Format

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02 % sodium azide.

Stored at 4°C- 8°C, shelf life is at least 24 months after purchase.

Dilution advice

- ELISA (solid phase: 0,1-100 µg/ml; tracer: 0,001-100 µg/ml for 30 min at RT).

Positive control

Ovary or placenta.

References

- Fantl, V.E, et al, *J. Steroid Biochem.* **17**: 125-130 (1982).
- Sharma, I. Refinement of analytical technologies for detection of biomolecules of importance to the dairy sector. PhD Thesis Massey University (2011).