Medix Biochemica

Product specification
ANTIBODY
2025-04-15

Anti-Progesterone 1803 SPTNZ -5

Product overview

Catalog number	100250
Specificity	Antibody recognizes progesterone
Description	Monoclonal mouse antibody, cultured *in vitro* under conditions free from animal-derived components.
Product buffer solution	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.05 % Sulfobetaine, 0.095 % NaN_3 as a preservative
Shelf life and storage	24 months from manufacturing at 2–8 °C
Subclass	IgG_{2a}
Analyte description	Progesterone is produced after ovulation in the corpus luteum and during pregnancy in the placenta. It is also produced in the adrenal glands. In women, progesterone levels are relatively low during the preovulatory phase, rise after ovulation, and are elevated during the luteal phase. Progesterone levels tend to be < 2 ng/ml prior to ovulation, and > 5 ng/ml after ovulation. If pregnancy occurs, progesterone levels are initially maintained at luteal levels. With the onset of the luteal-placental shift in progesterone support of the pregnancy, levels start to rise further and may reach 100–200 ng/ml at term. After delivery and during lactation, progesterone levels are very low. Progesterone levels are relatively low in children and postmenopausal women. Adult males have levels similar to those in women during the follicular phase of the menstrual cycle.

Parameters tested on each lot

Product appearance	Liquid, may turn slightly opaque during storage
Product concentration	5.0 mg/ml (+/- 10 %)
Immunoreactivity	80–120 % compared to the reference sample in an FIA test
IEF Profile	6.3–7.5
Purity	≥ 95 %

Kinetic parameters

Association rate constant	Not Determined (N/D)
Dissociation rate constant	N/D
Affinity constant	N/D
Determination method	-
Determination antigen	-

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Cross-reactivities

11-alpha-hydroxyprogesterone	14 %
17-alpha-hydroxyprogesterone	4 %
21- hydroxyprogesterone	1 %
17-alpha-hydroxypregnenolone	0 %

Epitope

N/D

Pair recommendations

CAPTURE ANTIBODY	DETECTION ANTIBODY
-	-

Please note that pair recommendations are based on results obtained by our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations are only indicative.

Platforms tested

FIA

Antigens tested

Progesterone-3-HRP Antigen, Medix Biochemica, 170063

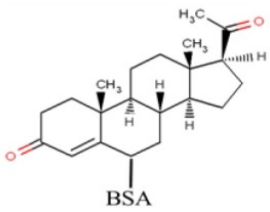
Product stability

TEMPERATURE, TIME	RESULT
-70 °C, 21 days	OK
-20 °C, 21 days	OK
+4 °C, 21 days	OK
+35 °C, 21 days	OK
+45 °C, 7 days	OK

Stability testing is performed in the product buffer to see whether different temperatures affect the antigen binding, charge or composition of the antibody. Please note that the shelf life given on the first page is based on real time stability testing at 2–8 °C in the product buffer.

Miscellaneous

Coupling to carrier protein (BSA) for immunization was done on carbon 6 in the steroid ring structure.



References

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