Medix Biochemica

MedixMAB™ ANTIBODIES

2021-04-23

Product specifications

Name	Anti-h FSH 6602 SP-5
Specificity	Antibody recognizes human follicle-stimulating hormone (FSH)
Description	Monoclonal mouse antibody, cultured *in vitro* under conditions free from animal-derived components.
Product code	100067
Product buffer solution	0.9 % NaCl, 0.095 % NaN_3 as a preservative
Shelf life and storage	24 months from manufacturing at 2–8 °C
Subclass	IgG_1
Analyte description	Follicle-stimulating hormone (FSH) is a hormone found in humans and other animals. It is synthesized and secreted by the anterior pituitary gland. FSH regulates the development, growth, pubertal maturation, and reproductive processes of the body. In both males and females, FSH stimulates the maturation of germ cells. In females, FSH initiates follicular growth and levels then decline in the late follicular phase. This seems to be critical in selecting only the most advanced follicle to proceed to ovulation. At the end of the luteal phase, there is a slight rise in FSH that seems to be of importance to start the next ovulatory 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	6.6–7.4
Purity	≥ 95 %

Kinetic parameters

Association rate constant	Not Determined (N/D)
Dissociation rate constant	N/D
Affinity constant	3 x 10^{10} 1/M
Determination method	Radioimmunoassay (RIA)
Determination antigen	FSH, Scripps Laboratories (Cat F0614, Lot 805811)

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Cross-reactivities	FSH α	1 % (Scripps Laboratories, Cat F0714, Lot 734811)
	FSH β	68 % (Scripps Laboratories, Cat F0814, Lot 110811)
	LH	< 0.2 % (Scripps Laboratories, Cat L0814, Lot 125711)
	hCG	< 0.1 % (Scripps Laboratories, Cat C0714, Lot 191712)
	TSH	< 0.1 % (Scripps Laboratories, Cat T0114, Lot 181711)

Epitope: N/D

Pair recommendations

CAPTURE ANTIBODY	DETECTION ANTIBODY
6602	6601 (Anti-h Alpha Subunit 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: Antibody recognizes native FSH antigen, Lee Biosolutions 996-10 and 996-11.

Product stability

TEMPERATURE, TIME	RESULT
-70 °C, 21 days	N/D
-20 °C, 21 days	OK
+4 °C, 21 days	OK
+30 °C, 21 days	OK
+35 °C, 7 days	OK
+35 °C, 21 days	Reduced immunoreactivity
+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: -

References: -

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