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## Datasheet for ABIN1114964 FSH ELISA Kit

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#### Overview

Quantity:	96 tests
Target:	FSH
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	3.13 ng/mL - 200 ng/mL
Minimum Detection Limit:	3.13 ng/mL
Application:	ELISA

#### Product Details

Purpose:	The kit is a sandwich enzyme immunoassay technique for the in vitro quantitative measurement in various sample types.
Sample Type:	Plasma, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This kit recognizes natural and recombinantRatFSH. No significant cross-reactivity or interference between RatFSH and analogues was observed. Note: Limited by existing techniques, cross reaction may still exist, as it is impossible for us to complete the cross-reactivity detection between RatFSH and all the analogues.
Cross-Reactivity (Details):	No significant cross-reactivity or interference between rat Follicle-stimulating hormone and analogues was observed. Note: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between Human bFGF and all the analogues,

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## Product Details

	therefore, cross reaction may still exist.
Sensitivity:	1.88 ng/mL
Components:	<ul> <li>Pre-coated, ready to use 96-well strip plate, flat buttom</li> <li>Plate sealer for 96 wells</li> <li>Reference Standard</li> <li>Reference Standard &amp; Sample Diluent</li> <li>Biotinylated Detection Antibody (100 x concentrate)</li> <li>HRP Conjugate (100 x concentrate)</li> <li>Biotinylated Detection Antibody Diluent</li> <li>HRP Conjugate Diluent</li> <li>Substrate Reagent</li> <li>Stop Solution</li> <li>Wash Buffer (25 x concentrate)</li> <li>Instruction manual</li> </ul>

## Target Details

Target:	FSH
Alternative Name:	Follicle-stimulating hormone (FSH Products)
Target Type:	Hormone
Pathways:	Peptide Hormone Metabolism, Chromatin Binding

## Application Details

Application Notes:	ELISA Plate: The just opened ELISA Plate may appear water-like substance, which is normal
	and will not have any impact on the experiment results.
	Add Sample: The interval of sample adding between the first well and the last well should not
	be too long, otherwise will cause different pre-incubation time, which will significantly affect the
	experiment's accuracy and repeatability. For each step in the procedure, total dispensing time
	for addition of reagents or samples to the assay plate should not exceed 10 minutes. Parallel
	measure ment is recommended.
	Incubation: To prevent evaporation and ensure accurate results, proper adhesion of plate
	sealers during incubation steps is necessary. Do not allow wells to sit uncovered for extended
	periods between incubation steps. Do not let the strips dry at any time during the assay. Strict
	compliance with the given incubation time and temperature.
	Washing: The wash procedure is critical. Insufficient washing will result in poor precision and
	falsely elevated absorbance readings. Residual liquid in the reaction wells should be pat dry

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**Reagent Preparation:** As the volume of Detection Ab and HRP Conjugate is very small, liquid may adhere to the tube wall or tube cap when being transported. You better hand-throw it or centrifugal it for 1 minute at 1000rpm. Please pipette the solution for 4-5 times before pippeting. Please carefully reconstitute Standards, working solutions of Detection Ab and HRP Conjugate according to the instructions. To minimize imprecision caused by pipetting, ensure that pipettors are calibrated. It is recommended to suck more than 10µL for once pipetting. Do not reuse standard solution, working solution of Detection Ab and HRP Conjugate, which have been diluted. If you need to use standard repeatedly, you can divide the standard into small pack according to the amount of each assay, keep them at -20°C to -80°C and avoid repeated freezing and thawing.

**Reaction Time Control:** Please control reaction time strictly following this product description! **Substrate:** Substrate Solution is easily contaminated. Please protect it from light.Stop Solution: As it is an acid solution, please pay attention to the protection of your eyes, hands, face and clothes when using this solution.

**Mixing:** You'd better use micro-oscillator at the lowest frequency, as sufficient and gentle mixing is particularly important to reaction result. If there is no micro-oscillator available, you can knock the ELISA plate frame gently with your finger before reaction.

**Security:** Please wear lab coats and latex gloves for protection. Especially detecting samples of blood or other body fluid, please perform following the national security columns of biological laboratories.

Do not use component from different batches of kit(washing buffer and stop solution can be an exception)

To avoid cross-contamination, change pipette tips between adding of each standard level, between sample adding, and between reagent adding. Also, use separate reservoirs for each reagent. Otherwise, the results will be inaccurate!

Comment:

Information on standard material:

The formulation of the standard is 0.01 M PBS. The standard contains additives (1 % BSA).

Information on reagents:

Reagents include 1 M SO<sub>2</sub>. Azide, thimerosal, 2-mercaptoethanol (2-ME) or any other poisonous materials are not used.

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The provided antibodies and their host vary in different kits. All antibodies are affinity purified

The sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest protein concentration that could be differentiated from zero. It was determined by adding two standard deviations to the mean optical density value of twenty zero standard replicates and calculating the corresponding concentration.

Sample Volume:	100 µL
Plate:	Pre-coated
Protocol:	1. Add 100 $\mu$ L standard or sample to each well. Incubate for 90 min at 37 °C.
	2. Remove the liquid. Add 100 $\mu$ L Biotinylated Detection Antibody. Incubate for 1 hour at 37 °C.
	3. Aspirate and wash 3 times.
	4. Add 100 μL HRP Conjugate. Incubate for 30 min at 37 °C.
	5. Aspirate and wash 5 times.
	6. Add 90 μL Substrate Reagent. Incubate for 15 min at 37 °C.
	7. Add 50 μL Stop Solution. Read at 450 nm immediately.
	8. Calculation of results.
Reagent Preparation:	1. Bring all reagents to room temperature (18~25 °C) before use. Follow the Microplate reader
	manual for set-up and preheat it for 15 min before OD measurement.
	2. Wash Buffer: Dilute 30 mL of Concentrated Wash Buffer with 720 mL of deionized or distilled
	water to prepare 750 mL of Wash Buffer.Note: if crystals have formed in the concentrate,
	warm it in a 40 °C water bath and mix it gently until the crystals have completely dissolved
	3. Standard working solution: Centrifuge the standard at 10,000xg for 1 min. Add 1.0 mL of
	Reference Standard &Sample Diluent, let it stand for 10 min and invert it gently several times
	After it dissolves fully, mix it thoroughly with a pipette. This reconstitution produces a
	working solution of 200 ng/mL. Then make serial dilutions as needed. The recommended
	dilution gradient is as follows: 200, 100, 50, 25, 12.5, 6.25, 3.13, 0 ng/mL. Dilution method:
	Take 7 EP tubes, add 500 $\mu$ Lof Reference Standard & Sample Diluent to each tube. Pipette
	500 $\mu$ Lof the 200 ng/mL working solution to the first tube and mix up to produce a
	100 ng/mL working solution. Pipette 500 $\mu$ Lof the solution from the former tube into the
	latter one according to these steps. The illustration below is for reference. Note: the last tube
	is regarded as a blank. Don't pipette solution into it from the former tube.
	4. Biotinylated Detection Antibody working solution: Calculate the required amount before the
	experiment (100 $\mu$ L/well). In preparation, slightly more than calculated should be prepared.
	Centrifuge the stock tube before use, dilute the 100x Concentrated Biotinylated Detection
	Antibody to 1xworking solution with Biotinylated Detection Antibody Diluent.
	5. Concentrated HRP Conjugate working solution: Calculate the required amount before the
	experiment (100 µL/well). In preparation, slightly more than calculated should be prepared.
	Dilute the 100x Concentrated HRP Conjugate to 1x working solution with Concentrated HRP

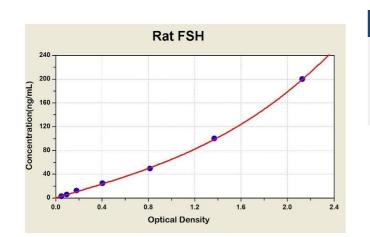
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Application Details	
	Conjugate Diluent.
Restrictions:	For Research Use only
Handling	
Handling Advice:	All the reagents in the kit should be stored according to the labels on vials. Unused wells should be returned to the foil pouch with the desiccant pack and resealed along entire edge of zip-seal. Substrate Reagent shouldn't be kept at -20 °C (Check!). Exposure of reagents to strong light should be avoided in the process of incubation and storage. All the taps of reagents should be tightened to prevent evaporation and microbial contamination. If not to store reagents according to above suggestions, erroneous results may occur.
Storage:	4 °C/-20 °C
Storage Comment:	The unopened kit can be stored at 4°C for 1 month. If the kit is not used within 1 month, store the items separately according to the conditions since the kit is received.
Publications	
Product cited in:	Wilson, Anderson, Snyder, Duong, Trieu, Schreihofer, Cunningham: "Chronic intermittent hypoxia induces hormonal and male sexual behavioral changes: Hypoxia as an advancer of aging." in: <b>Physiology &amp; behavior</b> , Vol. 189, pp. 64-73, (2019) (PubMed).
	Xiang, Bian, Wan, Zhang, Huang, Wu: "Sleeve Gastrectomy Reversed Obesity-Induced Hypogonadism in a Rat Model by Regulating Inflammatory Responses in the Hypothalamus and Testis." in: <b>Obesity surgery</b> , Vol. 28, Issue 8, pp. 2272-2280, (2018) (PubMed).
	Chaudhari, Dawalbhakta, Nampoothiri: "GnRH dysregulation in polycystic ovarian syndrome (PCOS) is a manifestation of an altered neurotransmitter profile." in: <b>Reproductive biology and</b> endocrinology : RB&E, Vol. 16, Issue 1, pp. 37, (2018) (PubMed).
	Cui, Long, Zhu, Tian: "Protective Effects of Fluvastatin on Reproductive Function in Obese Male Rats Induced by High-Fat Diet through Enhanced Signaling of mTOR." in: <b>Cellular physiology</b> <b>and biochemistry : international journal of experimental cellular physiology, biochemistry,</b> <b>and pharmacology</b> , Vol. 41, Issue 2, pp. 598-608, (2017) (PubMed).
	Yan, Mu, Yu, Yi, Zhang, Pang, Cheng, Yang: "Protective effects of metformin on reproductive

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There are more publications referencing this product on: Product page

#### Images

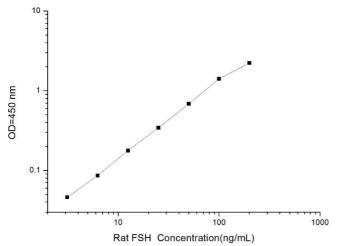


#### **ELISA**

**Image 1.** Diagramm of the ELISA kit to detect Rat FSHwith the optical density on the x-axis and the concentration on the y-axis.



Image 2. Typical standard curve



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