



English Instruction
enzyme-linked immunosorbent assay

Human(WNT3A) ELISA Kit Instruction

Catalogue No.

201-12-2350

Preface

Please carefully read this instruction before using. This ELISA kit is based on the principle of double-antibody sandwich technique to detect Human (WNT3A). Be used only for research purposes, not be used for medical diagnosis.

Full Name

Human Wingless Type MMTV Integration Site Family, Member 3A(WNT3A) ELISA Kit

Intended Use

This kit is used to assay the Wingless Type MMTV Integration Site Family, Member 3A(WNT3A) in the sample of human' s serum, blood plasma, and other related tissue Liquid.

Test principle

The kit uses a double-antibody sandwich enzyme-linked immunosorbent assay (ELISA) to assay the level of Human Wingless Type MMTV Integration Site

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Family, Member 3A(WNT3A) in samples. Add WNT3A to monoclonal antibody Enzyme well which is pre-coated with Human Wingless Type MMTV Integration Site Family, Member 3A(WNT3A) monoclonal antibody, incubation; then, add Wingless Type MMTV Integration Site Family, Member 3A(WNT3A) antibodies labeled with biotin, and combined with Streptavidin-HRP to form immune complex; then carry out incubation and washing again to remove the uncombined enzyme. Then add Chromogen Solution A, B, the color of the liquid changes into the blue, And at the effect of acid, the color finally becomes yellow. The chroma of color and the concentration of the Human Substance Wingless Type MMTV Integration Site Family, Member 3A(WNT3A) of sample were positively correlated.

Materials supplied in the Test Kit

1	Standard (24ng/ml)	0.5ml
2	Standard diluent	3ml
3	Microelisa Stripplate	12well×8strips
4	Str- HRP-Conjugate Reagent	6ml
5	30×wash solution	20ml
6	Biotin- WNT3A Ab	1ml
7	Chromogen Solution A	6ml
8	Chromogen Solution B	6ml
9	Stop Solution	6ml
10	Instruction	1
11	Closure plate membrane	2
12	Sealed bags	1

Materials required but not supplied

1. 37 °C incubator
2. Standard Enzyme reader
3. Precision pipettes and Disposable pipette tips
4. Distilled water
5. Disposable tubes for sample dilution
6. Absorbent paper

Important Notes

1. Being taken out from the 2-8°C environment, the kit should be balanced 30 minutes in the ambient temperature then use. If the Coated plates of Enzyme haven't been used up after opened, the remaining plates should be stored in Sealed bag.
2. For each step, add Sample with sample injector which should be calibrated frequently, in order to avoid unnecessary experimental tolerance.
3. The operation shall be carried out accordance to the instructions strictly. And test results must be based on the readings of the Enzyme reader.
4. In order to avoid cross-contamination, it is forbidden to re-use the suction head and seal plate membrane in your hands.
5. All samples, washing buffer and each kind of reagent should according to infective material process.
6. The idle agents shall be put up or covered. Do not use reagent with different batches. And use them before expired date.
7. The substrate B is light-sensitive. Prolonged exposure to light is forbidden.

Washing method

Manually washing method: shake away the remain liquid in the enzyme plates; place some bibulous papers on the test-bed, and flap the plates on the upside down strongly. Inject at least 0.35ml after-dilution washing solution into the well, and marinate 1~2 minutes. Repeat this process according to your requirements.

Automatic washing method: if there is automatic washing machine, it should only be used in the test when you are quite familiar with its function and performance.

Specimen requirements

1. Can' t detect the sample which contain NaN_3 , because NaN_3 inhibits HRP active
2. extract as soon as possible after Specimen collection, and according to the relevant literature, and should be experiment as soon as possible after the extraction. If it can' t, specimen can be kept in $-20\text{ }^\circ\text{C}$ to preserve, Avoid repeated freeze-thaw cycles.
3. serum- coagulation at room temperature 10-20 mins, centrifugation 20-min at the speed of 2000-3000 r.p.m. remove supernatant, If precipitation appeared, Centrifugal again.
4. plasma-use suited EDTA or citrate plasma as an anticoagulant, mix 10-20 mins ,centrifugation 20-min at the speed of 2000-3000 r.p.m. remove supernatant, If precipitation appeared, Centrifugal again.
5. Urine-collect sue a sterile container, centrifugation 20-min at the speed of 2000-3000 r.p.m. remove supernatant, If precipitation appeared, Centrifugal again. The Operation of Hydrothorax and cerebrospinal fluid

Reference to it.

6. cell culture supernatant-detect secretory components, collect sue a sterile container, centrifugation 20-min at the speed of 2000-3000 r.p.m. remove supernatant, detect the composition of cells, Dilut cell suspension with PBS (PH7.2-7.4) , Cell concentration reached 1 million / ml, repeated freeze-thaw cycles, damage cells and release of intracellular components, centrifugation 20-min at the speed of 2000-3000 r.p.m. remove supernatant, If precipitation appeared, Centrifugal again.

7. Tissue samples- After cutting samples, check the weight, add PBS (PH7.2-7.4) , Rapidly frozen with liquid nitrogen, maintain samples at 2-8°C after melting, add PBS (PH7.4) , Homogenized by hand or Grinders, centrifugation 20-min at the speed of 2000-3000 r.p.m. remove supernatant.

Note: Grossly hemolyzed samples are not suitable for use in this assay.

Assay procedure

1. Standard dilution:

this test kit will supply one original Standard reagent, please dilute it by yourself according to the instruction.

12ng/ml	Standard No. 5	120 μ l Original Standard + 120 μ l Standard diluents
16ng/ml	Standard No. 4	120 μ l Standard No. 5 + 120 μ l Standard diluents
3ng/ml	Standard No. 3	120 μ l Standard No. 4 + 120 μ l Standard diluent
1.5ng/ml	Standard No. 2	120 μ l Standard No. 3 + 120 μ l Standard diluent
0.75ng/ml	Standard No. 1	120 μ l Standard No. 2 + 120 μ l Standard diluent

2. The quantity of the plates depends on the quantities of to-be-tested samples and the standards. It is suggested to duplicate each standard and blank well. Every sample shall be made according to your required quantity,

and try to use the duplicated well as possible.

3. Inject samples:

- ① Blank well: don't add samples and WNT3A -antibody labeled with biotin, Streptavidin-HRP, only Chromogen solution A and B, and stop solution are allowed; other operations are the same.
- ② Standard wells: add standard 50 μ l, Streptavidin-HRP 50 μ l (since the standard already has combined biotin antibody, it is not necessary to add the antibody);
- ③ To be test wells: add sample 40 μ l, and then add both WNT3A -antibody 10 μ l and Streptavidin-HRP 50 μ l. Then seal the sealing membrane, and gently shaking, incubated 60 minutes at 37 $^{\circ}$ C.

4. Confection: dilute 30 times the 30 \times washing concentrate with distilled water as standby.

5. Washing: remove the membrane carefully, and drain the liquid, shake away the remaining water.

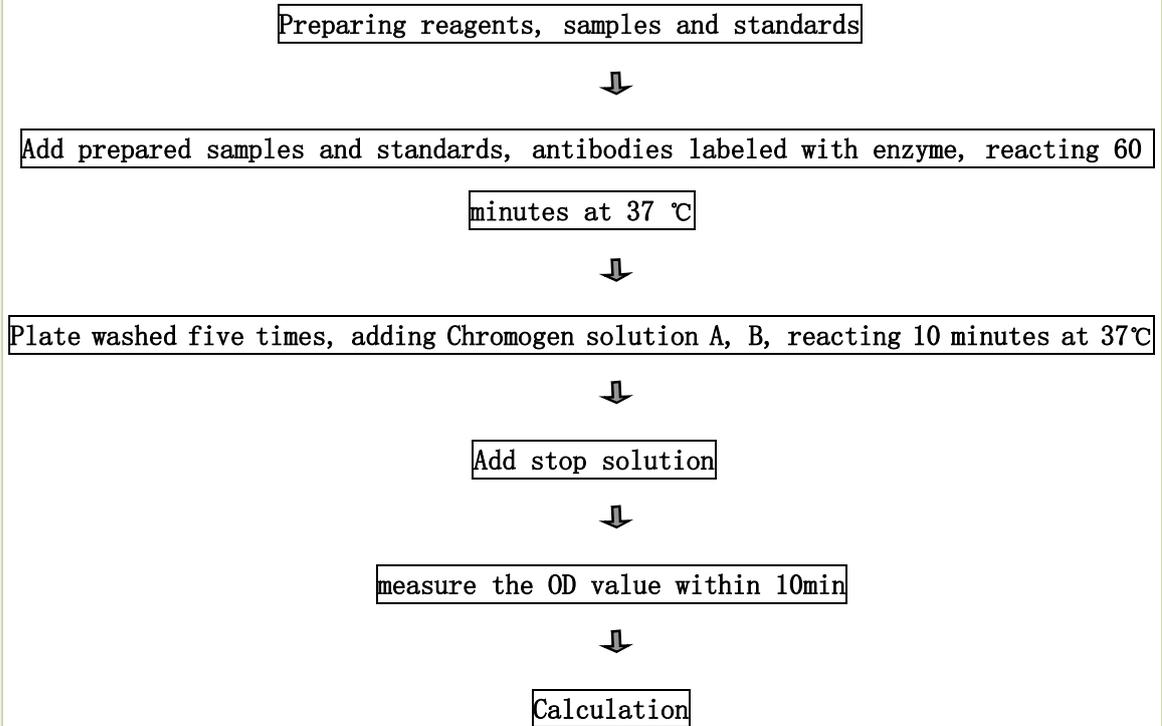
6. Add chromogen solution A 50 μ l, then chromogen solution B 50 μ l to each well. Gently mixed, incubate for 10 min at 37 $^{\circ}$ C away from light.

7. Stop: Add Stop Solution 50 μ l into each well to stop the reaction (the blue changes into yellow immediately).

8. Final measurement: Take blank well as zero, measure the optical density (OD) under 450 nm wavelength which should be carried out within 15 min after adding the stop solution.

9. According to standards' concentration and the corresponding OD values, calculate out the standard curve linear regression equation, and then apply the OD values of the sample on the regression equation to calculate the corresponding sample's concentration. It is acceptable to use kinds of software to make calculations.

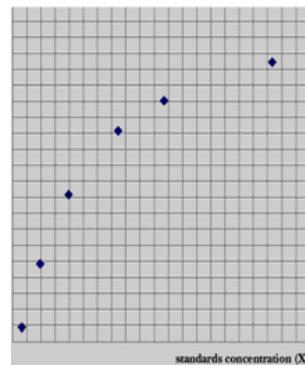
Summary procedures



Calculate

Take the standard density as the horizontal, the OD value for the vertical, draw the standard curve on graph paper, Find out the corresponding density according to the sample OD value by the Sample curve (the result is the sample density)

or calculate the straight line regression equation of the standard curve with the standard density and the OD value ,with the sample OD value in the equation, calculate the sample density. result



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Sensitivity、 Assay range

Sensitivity: 0.055ng/ml

Assay range: 0.5ng/ml→20ng/ml

Package size

96T perbox

validity&Storage

six months (2-8°C)

■ Our electronic version of the manual is not related to the kit performance, specificity and other relevant data and instructions. Because we need to avoid data copying. So the electronic version of the manual only as reference, The delivery instruction is taken as final instruction.