Datasheet for ABIN4993487

Histone 3 ELISA Kit

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Overview

Quantity:	96 tests
Target:	Histone 3 (H3)
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	0.16 ng/mL - 10 ng/mL
Minimum Detection Limit:	0.16 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 recombinantMouseH3. No significant cross-reactivity or interference between MouseH3 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 MouseH3 and all the analogues.
Sensitivity:	0.09 ng/mL
Components:	• Pre-coated, ready to use 96-well strip plate, flat buttom

Product Details

- Plate sealer for 96 wells
- Reference Standard
- Reference Standard & Sample Diluent
- Biotinylated Detection Antibody (100 x concentrate)
- HRP Conjugate (100 x concentrate)
- Biotinylated Detection Antibody Diluent
- HRP Conjugate Diluent
- Substrate Reagent
- Stop Solution
- Wash Buffer (25 x concentrate)
- Instruction manual

Target Details

Target:	Histone 3 (H3)

Application Details

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_2. Azide, thimerosal, 2-mercaptoethanol (2-ME) or any other poisonous materials are not used. Information on antibodies: 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 µL standard or sample to each well. Incubate for 90 min at 37 °C. 2. Remove the liquid. Add 100 µL Biotinylated Detection Antibody. Incubate for 1 hour at 37 °C. 3. Aspirate and wash 3 times.

Application Details

	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 10 ng/mL. Then make serial dilutions as needed. The recommended dilution gradient is as follows: 10, 5, 2.5, 1.25, 0.63, 0.32, 0.16, 0 ng/mL. Dilution method: Take 7 EP tubes, add 500 µLof Reference Standard & Sample Diluent to each tube. Pipette 500 µ Lof the 10 ng/mL working solution to the first tube and mix up to produce a 5 ng/mL working solution. Pipette 500 µLof 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 µL/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 Conjugate Diluent.
Restrictions:	For Research Use only

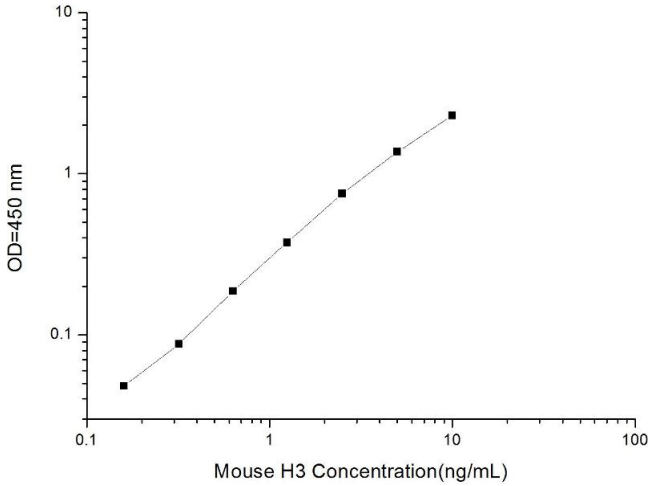
Handling

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

Handling

Storage Comment:	The unopened kit can be stored at 4*℃ 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.*

Images



ELISA

Image 1. Typical standard curve