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Datasheet for ABIN1884596 FABP4 ELISA Kit

Image



Overview

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Quantity:	96 tests
Target:	FABP4
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	0.78 ng/mL - 50 ng/mL
Minimum Detection Limit:	0.78 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 recombinantMouseFABP4. No significant cross-reactivity or interference between MouseFABP4 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 MouseFABP4 and all the analogues.
Sensitivity:	0.47 ng/mL
Components:	Pre-coated, ready to use 96-well strip plate, flat buttom

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- 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:	FABP4
Alternative Name:	Fatty Acid Binding Protein 4, Adipocyte (FABP4 Products)
Pathways:	Brown Fat Cell Differentiation

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
	against absorbent paper in the washing process. But don't put absorbent paper into reaction
	wells directly. Note that clear the residual liquid and fingerprint in the bottom before
	measurement, so as not to affect the micro-titer plate reader.
	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

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	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 10 μ L 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 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

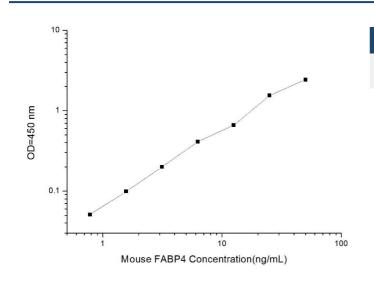
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	standard deviations to the mean optical density value of twenty zero standard replicates and
	calculating the corresponding concentration.
Sample Volume:	100 μL
Plate:	Pre-coated
Protocol:	 Add 100 μL standard or sample to each well. Incubate for 90 min at 37 °C. Remove the liquid. Add 100 μL Biotinylated Detection Antibody. Incubate for 1 hour at 37 °C. Aspirate and wash 3 times. Add 100 μL HRP Conjugate. Incubate for 30 min at 37 °C. Aspirate and wash 5 times. Add 90 μL Substrate Reagent. Incubate for 15 min at 37 °C. Add 50 μL Stop Solution. Read at 450 nm immediately. Calculation of results.
Reagent Preparation:	 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. 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 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 50 ng/mL. Then make serial dilutions as needed. The recommended dilution gradient is as follows: 50, 25, 12.5, 6.25, 3.13, 1.57, 0.78, 0 ng/mL. Dilution method: Take 7 EP tubes, add 500 µLof Reference Standard & Sample Diluent to each tube. Pipette 500 µLof the 50 ng/mL working solution to the first tube and mix up to produce a 25 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. 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 bolluent. 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

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	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.

Images



ELISA

Image 1. Typical standard curve