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Datasheet for ABIN625131 IGFBP5 ELISA Kit

1 Image

1 Publication



Overview

Quantity:	96 tests
Target:	IGFBP5
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	5-3000 pg/mL
Minimum Detection Limit:	5 pg/mL
Application:	ELISA

Product Details

Purpose:	Mouse IGFBP-5 ELISA Kit for cell culture supernatants, plasma, and serum samples.
Sample Type:	Serum, Plasma, Cell Culture Supernatant
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This ELISA kit shows no cross-reactivity with the following cytokines tested: Mouse CD30, L CD30, T CD40, CRG-2, CTACK, CXCL16, Eotaxin , Eotaxin-2, Fas Ligand, Fractalkine, GCSF, GM- CFS, IFN- gamma, IGFBP-3, IGFBP-6, IL-1 alpha, IL-1 beta, IL-2, IL-3, IL-3 Rb, IL-4, IL-5, IL-9, IL-10, IL-12 p40/p70, IL-12 p70, IL-13, IL-17, KC, Leptin R, LEPTIN(OB), LIX, L-Selectin, Lymphotactin, MCP-1, MCP-5, M-CSF, MIG, MIP-1 alpha, MIP-1 gamma, MIP-2, MIP-3 beta, MIP-3 alpha, PF-4, P-Selectin, RANTES, SCF, SDF-1 alpha, TARC, TCA-3, TECK, TIMP-1, TNF RI, TNF RII, TPO, VCAM-1, VEGF.
Sensitivity:	< 5 pg/mL

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Product Details

Characteristics:	 Strip plates and additional reagents allow for use in multiple experiments Quantitative protein detection Establishes normal range The best products for confirmation of antibody array data
Components:	Pre-Coated 96-well Strip Microplate
	Wash Buffer
	Stop Solution
	Assay Diluent(s)
	Lyophilized Standard
	Biotinylated Detection Antibody
	Streptavidin-Conjugated HRP
	TMB One-Step Substrate
Material not included:	Distilled or deionized water
	 Precision pipettes to deliver 2 µL to 1 µL volumes
	 Adjustable 1-25 µL pipettes for reagent preparation
	 100 µL and 1 liter graduated cylinders
	 Tubes to prepare standard and sample dilutions
	Absorbent paper
	Microplate reader capable of measuring absorbance at 450nm
	Log-log graph paper or computer and software for ELISA data analysis

Target Details

Target:	IGFBP5
Alternative Name:	IGFBP-5 (IGFBP5 Products)
Background:	The Mouse IGFBP-5 (Insulin-like growth factor binding protein 5) ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Mouse IGFBP-5 in serum, plasma and cell culture supernatants. This assay employs an antibody specific for IGFBP-5 coated on a 96-well plate. Standards and samples are pipetted into the wells and IGFBP-5 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Mouse IGFBP-5 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of IGFBP-5 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. Reproducibility: Intra-Assay: CV<10% Inter-Assay: CV<12%.
Gene ID:	16011

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Target Details

UniProt:	Q07079
Pathways:	WNT Signaling, Carbohydrate Homeostasis, Myometrial Relaxation and Contraction, Regulation of Carbohydrate Metabolic Process, Autophagy, Smooth Muscle Cell Migration, Growth Factor
	Binding

Application Details

Application Notes:	Recommended Dilution for serum and plasma samples100 - 1,000 fold
Sample Volume:	100 μL
Plate:	Pre-coated
Protocol:	1. Prepare all reagents, samples and standards as instructed in the manual.
	2. Add 100 μ L of standard or sample to each well.
	3. Incubate 2.5 h at RT or O/N at 4 °C.
	4. Add 100 μ L of prepared biotin antibody to each well.
	5. Incubate 1 h at RT.
	6. Add 100 μ L of prepared Streptavidin solution to each well.
	7. Incubate 45 min at RT.
	8. Add 100 μ L of TMB One-Step Substrate Reagent to each well.
	9. Incubate 30 min at RT.
	10. Add 50 µL of Stop Solution to each well.
	11. Read at 450 nm immediately.
Reagent Preparation:	1. Bring all reagents and samples to room temperature (18 - 25 °C) before use.
	2. Sample dilution: If your samples need to be diluted, Assay Diluent C (Item L) should be used
	for dilution of serum/plasma/culture supernatants. Suggested dilution for normal
	serum/plasma: 100-1000 fold*. * Please note that levels of the target protein may vary between
	different specimens. Optimal dilution factors for each sample must be determined by the
	investigator.
	3. Assay Diluent B (Item E) should be diluted 5-fold with deionized or distilled water before use.
	4. Preparation of standard: Briefly spin the vial of Item C. Add 400 μL Assay Diluent C (Item L)
	into Item C vial to prepare a 100 ng/mL standard solution. Dissolve the powder thoroughly by a
	gentle mix. Add 30 μ L IGFBP-5 standard from the vial of Item C, into a tube with 970 μ L Assay
	Diluent C to prepare a 3,000 pg/mL standard solution. Pipette 400myl Assay Diluent C into eacl
	tube. Use the stock standard solution to produce a dilution series . Mix each tube thoroughly
	before the next transfer. Assay Diluent C serves as the zero standard (0 pg/mL). 200 μ L 30 μ L
	standard + 970 µL 200myl 200 µL 200 µL 200 µL 200 µL 3,000 1,000 333.3 111.1 37.04 12.35
	4.12 0 pg/mL pg/mL pg/mL pg/mL pg/mL pg/mL pg/mL

5. If the Wash Concentrate (20x) (Item B) contains visible crystals, warm to room temperature
and mix gently until dissolved. Dilute 20 ml of Wash Buffer Concentrate into deionized or
distilled water to yield 400 ml of 1x Wash Buffer.
6. Briefly spin the Detection Antibody vial (Item F) before use. Add 100 μ L of 1x Assay Diluent B
(Item E) into the vial to prepare a detection antibody concentrate. Pipette up and down to mix
gently (the concentrate can be stored at 4 °C for 5 days). The detection antibody concentrate
should be diluted 80-fold with 1x Assay Diluent B and used in step 4 of Part VI Assay Procedure.
7. Briefly spin the HRP-Streptavidin concentrate vial (Item G) and pipette up and down to mix
gently before use. HRP-Streptavidin concentrate should be diluted 200-fold with 1x Assay
Diluent B (Item E). For example: Briefly spin the vial (Item G) and pipette up and down to mix
gently . Add 50 μ L of HRP-Streptavidin concentrate into a tube with 10 ml 1x Assay Diluent B to
prepare a 200-fold diluted HRP-Streptavidin solution (don't store the diluted solution for next
day use). Mix well.
1. Bring all reagents and samples to room temperature (18 - 25 °C) before use. It is
recommended that all standards and samples be run at least in duplicate.
2. Add 100 μ L of each standard (see Reagent Preparation step 2) and sample into appropriate
wells. Cover well and incubate for 2.5 hours at room temperature or over night at 4 °C with gentle shaking.
3. Discard the solution and wash 4 times with 1x Wash Solution. Wash by filling each well with
Wash Buffer (300 myl) using a multi-channel Pipette or autowasher. Complete removal of liquid
at each step is essential to good performance. After the last wash, remove any remaining Wash
Buffer by aspirating or decanting. Invert the plate and blot it against clean paper towels.
4. Add 100 µL of 1x prepared biotinylated antibody (Reagent Preparation step 6) to each well.
Incubate for 1 hour at room temperature with gentle shaking.
5. Discard the solution. Repeat the wash as in step
6. Add 100 µL of prepared Streptavidin solution (see Reagent Preparation step 7) to each well.
Incubate for 45 minutes at room temperature with gentle shaking.
7. Discard the solution. Repeat the wash as in step
8. Add 100 µL of TMB One-Step Substrate Reagent (Item H) to each well. Incubate for 30
minutes at room temperature in the dark with gentle shaking.
minutes at room temperature in the dark with gentle shaking. 9. Add 50 µL of Stop Solution (Item I) to each well. Read at 450 nm immediately.
9. Add 50 µL of Stop Solution (Item I) to each well. Read at 450 nm immediately.

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	on the y-axis. Draw the best-fit straight line through the standard points.
	Typical Data: These standard curves are for demonstration only. A standard curve must be run
	with each assay. Mouse IGFBP-5 concentration (pg/mL) 1 10 100 1000 10000 O D =4 50 n m
	0.01 0.1 1 10 Assay Diluent C
	Sensitivity: The minimum detectable dose of IGFBP-5 is typically less than 5 pg/mL.
	Recovery: Recovery was determined by spiking various levels of IGFBP-5 into normal Mouse
	serum, plasma and cell culture media. Mean recoveries are as follows: Sample Type Average %
	Recovery Range (%) Serum 115.3 86-130 Plasma 95.11 83-102 Cell culture media 91.26 80-
	101
	Linearity: Sample Type Serum Plasma Cell Culture Media 1:2 Average % of Expected 73.54
	98.44 97.32 Range (%) 68-86 87-106 85-104 1:4 Average % of Expected 71.58 130.5 137.6
	Range (%) 65-84 118-140 123-145
	Reproducibility: Intra-Assay: CV<10 % Inter-Assay: CV<12 %
Assay Precision:	Intra-Assay: CV< 10 % Inter-Assay: CV< 12 %
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	The entire kit may be stored at -20°C for up to 1 year from the date of shipment. Avoid repeate
	freeze-thaw cycles. The kit may be stored at 4°C for up to 6 months. For extended storage, it is
	recommended to store at -80°C.
Expiry Date:	6 months

Publications

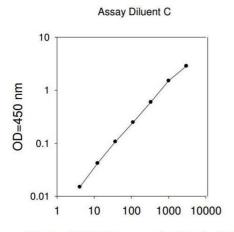
 Product cited in:
 Talbot, Sparks, Powell, Kahl, Caperna: "Quantitative and semiquantitative immunoassay of

 growth factors and cytokines in the conditioned medium of STO and CF-1 mouse feeder cells."

 in:
 In vitro cellular & developmental biology. Animal, Vol. 48, Issue 1, pp. 1-11, (2012) (PubMed

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Mouse IGFBP-5 concentration (pg/ml)

ELISA

Image 1.

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