

Datasheet for ABIN625266 TGFBI ELISA Kit

Image



Overview

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Quantity:	96 tests
Target:	TGFBI
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	25-6000 pg/mL
Minimum Detection Limit:	25 pg/mL
Application:	ELISA

Product Details

Purpose:	Human beta IG-H3 ELISA Kit for cell culture supernatants, plasma, and serum samples.
Sample Type:	Plasma, Cell Culture Supernatant, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This ELISA kit shows no cross-reactivity with the recombinant mouse beta-IGH3.
Sensitivity:	< 25 pg/mL
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

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	 Wash Buffer Stop Solution Assay Diluent(s) Lyophilized Standard Biotinylated Detection Antibody
	Streptavidin-Conjugated HRPTMB One-Step Substrate
Material not included:	Distilled or deionized water
Material not included.	 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:	TGFBI
Alternative Name:	beta-IG-H3 (TGFBI Products)
Background:	Transforming growth factor-beta-induced protein ig-h3 (Beta ig-h3) (Kerato-epithelin) (RGD-containing collagen-associated protein) (RGD-CAP)
Gene ID:	7045
UniProt:	Q15582

Application Details

Application Notes:	Recommended Dilution for serum and plasma samples400 - 4,000 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 µL of TMB One-Step Substrate Reagent to each	n well.
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- 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 A (Item D) should be used for dilution of serum/plasma samples. 1x Assay Diluent B (Item E) should be used for dilution of culture supernatants and urine. Suggested dilution for normal serum/plasma: 400-4,000 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 should be diluted 5-fold with deionized or distilled water before use.

4. Preparation of standard: Briefly spin the vial of Item C and then add 400 µL Assay Diluent A (for serum/plasma samples) or 1x Assay Diluent B (for cell culture supernates/urine) into Item C vial to prepare a 50 ng/mL standard. Dissolve the powder thoroughly by a gentle mix. Add 60 µL betalG-H3 standard (50 ng/mL) from the vial of Item C, into a tube with 440 µL Assay Diluent A or 1x Assay Diluent B to prepare a 6,000 pg/mL standard solution. Pipette 300 µL Assay Diluent A or 1x Assay Diluent B into each tube. Use the 6,000 pg/mL standard solution to produce a dilution series . Mix each tube thoroughly before the next transfer. Assay Diluent A or 1x Assay Diluent B serves as the zero standard (0 pg/mL). 60 µL standard + 440 µL 200 µL 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 µL of 1x Assay Diluent B 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 300-fold with 1x Assay Diluent B. For example: Briefly spin the vial (Item G) and pipette up and down to mix gently . Add 50 µL of HRP-Streptavidin concentrate into a tube with 15 ml 1x Assay Diluent B to prepare a 300-fold diluted HRP- Streptavidin solution (don't store the diluted solution for next day use). Mix well.

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Assay Procedure:
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1. Bring all reagents and samples to room temperature (18 - 25 °C) before use. It is

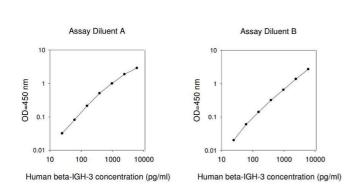
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	recommended that all standards and samples be run at least in duplicate.
	2. Add 100 μL of each standard (see Reagent Preparation step 2) and sample into appropriate
	wells. Cover well and incubate for 2.5 hours at room temperature or over night at 4 $^\circ C$ 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 μ L 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 μ L 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 μ L of TMB One-Step Substrate Reagent (Item H) to each well. Incubate for 30
	minutes at room temperature in the dark with gentle shaking.
	9. Add 50 μ L of Stop Solution (Item I) to each well. Read at 450 nm immediately.
Calculation of Results:	Calculate the mean absorbance for each set of duplicate standards, controls and samples, and
	subtract the average zero standard optical density. Plot the standard curve on log-log graph
	paper or using Sigma plot software, with standard concentration on the x-axis and absorbance
	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. Assay Diluent A Human beta-IGH-3 concentration (pg/mL) 10 100 1000 10000
	0 D =4 50 n m 0.01 0.1 1 10 Assay Diluent B Human beta-IGH-3 concentration (pg/mL) 10 100
	1000 10000 O D =4 50 n m 0.01 0.1 1 10
	Sensitivity: The minimum detectable dose of betaIG-H3 is typically less than 25 pg/mL.
	Recovery: Recovery was determined by spiking various levels human betalG-H3 into human
	serum, plasma and cell culture media. Mean recoveries are as follows: Sample Type Average $\%$
	Recovery Range (%) Serum 92.44 76-113 Plasma 86.91 69-104 Cell culture media 104.8 96-
	114
	Linearity: Sample Type Serum Plasma Cell Culture Media 1:2 Average % of Expected 107.9
	104.9 109.1 Range (%) 100-116 97-113 101-117 1:4 Average % of Expected 116.2 113.0 78.96
	Range (%) 108-124 95-121 70-87
	Reproducibility: Intra-Assay: CV<10 % Inter-Assay: CV<12 %
Assay Precision:	Intra-Assay: CV< 10 % Inter-Assay: CV< 12 %
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Application Details	
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 repeated 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

Images



ELISA

Image 1.