

Datasheet for ABIN625266

TGFBI ELISA Kit[Go to Product page](#)**1** Image

Overview

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

Product Details

- 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:	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 samples 400 - 4,000 fold
Sample Volume:	100 µL
Plate:	Pre-coated
Protocol:	<ol style="list-style-type: none">1. Prepare all reagents, samples and standards as instructed in the manual.2. Add 100 µL of standard or sample to each well.3. Incubate 2.5 h at RT or O/N at 4 °C.4. Add 100 µL of prepared biotin antibody to each well.5. Incubate 1 h at RT.6. Add 100 µL of prepared Streptavidin solution to each well.7. Incubate 45 min at RT.

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 μ l) 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
O 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 betaIG-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 %

Application Details

Restrictions: For Research Use only

Handling

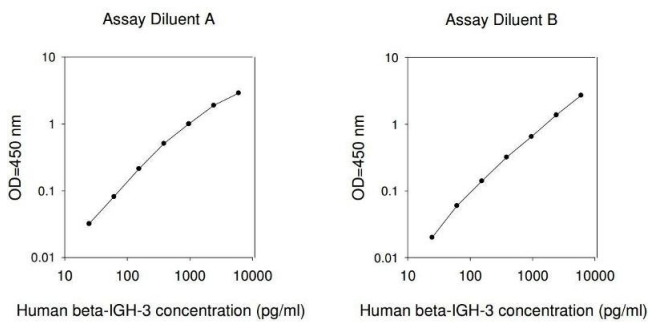
Handling Advice: Avoid repeated freeze-thaw cycles.

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.