

Datasheet for ABIN625247 FSTL3 ELISA Kit

Image



Overview

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| Quantity: | 96 tests |
|--------------------------|-----------------|
| Target: | FSTL3 |
| Reactivity: | Human |
| Method Type: | Sandwich ELISA |
| Detection Range: | 250-50000 pg/mL |
| Minimum Detection Limit: | 250 pg/mL |
| Application: | ELISA |

Product Details

| Purpose: | Human FLRG 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 following cytokines tested: human Angiogenin |
| | BDNF, BLC, CNTF, ENA- 78, FGF-4, IL-1 alpha, IL-1 beta, IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, |
| | IL-11, IL-12 p70, IL-12 p40, IL-13, IL-15, I-309, IP-10, FGF-4, FGF-6, FGF- 7, G-CSF, GDNF, GM- |
| | CSF, IFN-gamma, IGFBP-2, IGFBP-3, IGFBP-4, Leptin (OB), MCP-1, MCP-2, MCP-3, MDC, MIF, |
| | MIG, MIP-1 alpha, MIP-1 beta, MIP-1 delta, PARC, PDGF, RANTES, SCF, SDF-1 alpha, TARC, TGF |
| | beta, TIMP-1, TIMP-2, TNF-alpha, TNF-beta, TPO, VEGF. |
| Sensitivity: | < 250 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 μ L to 1 μ L 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: | FSTL3 |
|-------------------|---|
| Alternative Name: | FLRG (FSTL3 Products) |
| Background: | The Human FLRG ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of human in serum, plasma, cell culture supernatants and urine. This assay employs an antibody specific for human FLRG coated on a 96-well plate. Standards and samples are pipetted into the wells and FLRG present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-human FLRG 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 FLRG 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: | 10272 |

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Target Details

UniProt:

095633

Application Details

| Application Notes: | Recommended Dilution for serum and plasma samples2 - 10 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/urine. Suggested dilution for normal |
| | serum/plasma : 2-10 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 50 ng/mL standard solution. Dissolve the powder thoroughly by a |
| | gentle mix. Pipette 270myl Assay Diluent C into each 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). 180 μ L 180myl Standard |
| | ltem C vial 400 μL 50,000 20,000 8,000 3,200 1,280 512.0 204.8 0 pg/mL pg/mL pg/mL pg/m |
| | 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 |

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| | (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 240-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 12 ml 1x Assay Diluent B to prepare a final 240 fold diluted HRP-Streptavidin solution (don't store the diluted solution for next day use). Mix well. |
| Assay Procedure: | 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. 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 °C with gentle shaking. 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. 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. Discard the solution. Repeat the wash as in step 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. 9. Add 50 µL of Stop Solution (Item I) to each well. Read at 450 nm immediately. Calculate the mean absorbance for each set of duplicate standards, controls and samples, and |
| Calculation of Results. | 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. <u>Typical Data</u> : These standard curves are for demonstration only. A standard curve must be run with each assay. Assay Diluent C Human FLRG concentration (pg/mL) O D =4 50 n m 0.01 0.1 1 10 100 1,000 10,000 100,000 pg/mL |

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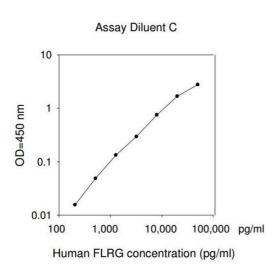
Application Details

| | Sensitivity: The minimum detectable dose of FLRG is typically less than 250 pg/mL. |
|------------------|--|
| | Recovery: Recovery was determined by spiking various levels of FLRG into normal human |
| | serum, plasma and cell culture media. Mean recoveries are as follows: Sample Type Average $\%$ |
| | Recovery Range (%) Serum 95.75 84-103 Plasma 77.86 67-99 Cell culture media 94.60 67-130 |
| | Linearity: Sample Type Serum Plasma Cell Culture Media 1:2 Average % of Expected 91.00 |
| | 98.85 94.90 Range (%) 80-99 90-104 85-104 1:4 Average % of Expected 85.63 75.98 76.87 |
| | Range (%) 76-93 67-82 68-85 |
| | 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 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.

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