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Datasheet for ABIN625249 TNFSF18 ELISA Kit

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Overview

| Quantity: | 96 tests |
|--------------------------|----------------|
| Target: | TNFSF18 |
| Reactivity: | Human |
| Method Type: | Sandwich ELISA |
| Detection Range: | 25-10000 pg/mL |
| Minimum Detection Limit: | 25 pg/mL |
| Application: | ELISA |

Product Details

| Purpose: | Human GITR Ligand (TNFSF18) 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: | 25 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 MicroplateWash 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: | TNFSF18 |
| Alternative Name: | GITR Ligand (TNFSF18 Products) |
| Background: | The Human GITR Ligand (glucocorticoid induced tumor necrosis factor receptor family related |
| | gene ligand) ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked |
| | immunosorbent assay for the quantitative measurement of human GITR Ligand in serum, |
| | plasma, cell culture supernatants and urine. This assay employs an antibody specific for human |
| | GITR Ligand coated on a 96-well plate. Standards and samples are pipetted into the wells and |
| | GITR Ligand present in a sample is bound to the wells by the immobilized antibody. The wells |
| | are washed and biotinylated anti-human GITR Ligand 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 GITR Ligand 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%. |
| | |

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Target Details

| Gene ID: | 8995 |
|----------|--------|
| UniProt: | Q9UNG2 |

Application Details

| Recommended Dilution for serum and plasma samples2 fold |
|--|
| 100 µL |
| Pre-coated |
| 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. |
| 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) is used for dilution of |
| serum/plasma/culture supernatants/urine. 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 |
| ltem 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. Add 100 μ l GITR Ligand standard |
| from the vial of Item C, into a tube with 400 μ l Assay Diluent C to prepare a 10,000 pg/ml |
| standard solution. Pipette 300 µl Assay Diluent C into each tube. Use the stock standard |
| solution to produce a dilution series (shown below). Mix each tube thoroughly before the next |
| transfer. Gently vortex to mix. Assay Diluent C serves as the zero standard (0 pg/ml). 5. If the |
| |
| Wash Concentrate (20x) (Item B) contains visible crystals, warm to room temperature and mi |
| gently until dissolved. Dilute 20 ml of Wash Buffer Concentrate into deionized or distilled wate |
| to yield 400 ml of 1x Wash Buffer. 6. Briefly spin the Detection Antibody vial (Item F) before us |
| 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 |
| |

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/5 | Product datasheet for ABIN625249 | 09/12/2023 | Copyright antibodies-online. All rights reserved. vial (Item G) and pipette up and down to mix gently before use. HRP-Streptavidin concentrate should be diluted 10,000-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 2 μ l of HRP-Streptavidin concentrate into a tube with 198.0 μ l 1x Assay Diluent B to prepare a 100-fold diluted HRP-Streptavidin solution (do not store the diluted solution for next day use). Mix through and then pipette 100 μ l of prepared 100-fold diluted solution into a tube with 10 ml 1x Assay Diluent B to prepare a final 10,000 fold diluted HRP-Streptavidin solution.

| Assay Procedure: | 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 µl) 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 3. 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 3. 8. Add 100 μI 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. |
| 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. |
| Restrictions: | For Research Use only |
| Handling | |
| 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 |
| | |

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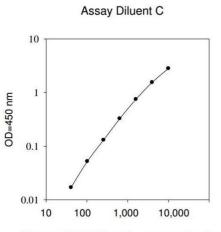
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Images



Human GITR Ligand concentration (pg/ml)

ELISA

Image 1.

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