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Datasheet for ABIN6386237 SH2D1A IQ-ELISA Kit



Overview

| Quantity: | 96 tests |
|--------------------|---|
| Target: | SH2D1A |
| Reactivity: | Human |
| Method Type: | Sandwich ELISA |
| Application: | ELISA |
| Product Details | |
| Purpose: | Human Immunoquantitative (PCR-Based) SH2D1A ELISA Kit for cell culture supernatants, |
| | plasma, and serum samples. |
| Sample Type: | Cell Culture Supernatant, Plasma, Serum |
| Analytical Method: | Semi-Quantitative |
| Detection Method: | qPCR |
| Characteristics: | IQ-ELISAs employ specific capture antibodies coated on a 96-well PCR plate. Standards and |
| | samples are pipetted into the wells, the target protein in the standards and samples binds to |
| | the immobilized antibody. The wells are washed and the detection affinity reagent is added to |
| | the wells where it binds to any captured antigen. The wells are washed, and primers and PCR |
| | master mix are added to each well. The plate is placed into a real time PCR instrument for |
| | cycling and measurement of DNA amplification. The cycle number where amplification is |
| | detected is proportional to the amount of affinity detection reagent that bound to captured |
| | antigen in each well. |
| Components: | SH2D1A Microplate (Item A): 96 well PCR plate coated with anti-Human SH2D1A |

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| | Wash Buffer I Concentrate (20x) (Item B): 25 ml of 20x concentrated solution Standards (Item C): 2 vials of recombinant Human SH2D1A Assay Diluent A (Item D): 30 ml diluent buffer, 0.09% sodium azide as preservative. For Standard/Sample (serum/plasma) diluent Assay Diluent B (Item E): 15 ml of 5x concentrated buffer. For Standard/Sample (cell culture medium/urine) diluent Detection Affinity Reagent for SH2D1A (Item F): 2 vials of a 4x concentrated solution of anti- Human SH2D1A affinity reagent IQELISA Detection Reagent (Item G): 1.4ml of a 10x concentrated stock Primer Solution (Item I): 1.7 ml vial PCR Master Mix (Item J): 1.2 ml vial PCR Preparation buffer (Item K): 1ml vial of 10x concentrated buffer |
|------------------------|---|
| Material not included: | Final Wash Buffer (Item L): 10ml vial of 10x concentrated buffer Real-time PCR instrument, Bio-Rad recommended Precision pipettes to deliver 2 µL to 1 mL volumes Adjustable 1-25 mL pipettes for reagent preparation 100 mL and 1 liter graduated cylinders Absorbent paper Distilled or deionized water Log-log graph paper or computer and software for data analysis Tubes to prepare standard or sample dilutions |

- Heating block or water bath capable of $80^{\circ}C$

Target Details

| Target: | SH2D1A |
|-------------------|---|
| Alternative Name: | SH2D1A (SH2D1A Products) |
| Gene ID: | 4068 |
| UniProt: | O60880 |
| Pathways: | Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process |

Application Details

| Application Notes: | The Immuno-Quantitative ELISA (IQELISA) kits are an innovative assay platform that combines |
|--------------------|--|
| | the specificity and ease of use of an ELISA with the sensitivity of real-time PCR. This results in |
| | an assay that is simultaneously familiar and cutting edge and enables the use of only 1/10th |
| | the sample volume while also providing 10x more sensitivity than a traditional ELISA. |
| Comment: | The Immuno-Quantitative ELISA (IQELISA™) kits are an innovative assay platform that |

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Application Details

| | combines the specificity and ease of use of an ELISA with the sensitivity of real-time PCR. Also |
|------------------|--|
| | called immuno-PCR, this detection platform results in an assay that is simultaneously familiar |
| | and cutting edge. Compared to traditional ELISA, IQELISA ^{${ m M}$} enables the use of only 1/10th the |
| | sample volume while also providing 10x more sensitivity. |
| Sample Volume: | 25 μL |
| Plate: | Pre-coated |
| Protocol: | 1. Prepare all reagents, samples and standards as instructed |
| | 2. Add 25 μL standard or sample to each well. Incubate for 2.5 hours at room temperature or overnight at 4°C |
| | 3. Add 25 μL detection affinity reagent to each well. Incubate 1 hour at room temperature |
| | 4. Add 25µL of IQELISA Detection Reagent to each well. Incubate 1 hour |
| | 5. Add 15µL Primer solution 10µL of PCR master mix to each well |
| | 6. Run real-time PCR |
| Restrictions: | For Research Use only |
| Handling | |
| Storage: | 4 °C,-20 °C,-80 °C |
| Storage Comment: | May be stored for up to 6 months at 2° to 8°C from the date of shipment. Standard |
| | (recombinant protein) should be stored at -20°C or -80°C (recommended at -80°C) after |
| | reconstitution. Opened PCR plate or reagents may be stored for up to 1 month at 2° to 8°C. |
| | Note: the kit can be used within one year if the whole kit is stored at -20°C. Avoid repeated |
| | freeze-thaw cycles. |
| Expiry Date: | 6 months |