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## Datasheet for ABIN5526720

### PRAS40 ELISA Kit

#### Overview

Quantity: 96 tests

Target: PRAS40 (AKT1S1)

Binding Specificity: pThr246, total

Reactivity: Human

Method Type: Cell ELISA

Application: ELISA

#### Product Details

Purpose: Cell-Based ELISA Kit. This assay semi-quantitatively measures PRAS40 phosphorylated at Threonine-246 as well as total PRAS40 in adherent cell lines.

Sample Type: Adherent Cell Culture

Analytical Method: Semi-Quantitative

Detection Method: Colorimetric

Specificity: This ELISA kit recognizes Human PRAS40 phosphorylated at site Threonine-246 as well as total PRAS40.

Characteristics:

- Rapidly measure phosphorylated protein in adherent cell lines
- Simultaneously measure Phosphorylated protein and pan protein in one experiment (for normalization purpose)
- No sample lysis is needed
- Compatible with a standard ELISA plate reader

Components:

- Uncoated 96-well Strip Microplate

## Product Details

- Wash Buffers
- Fixing Solution
- Quenching Buffer
- Blocking Buffer
- Anti-phospho antibody
- Anti-pan antibody
- HRP-Conjugated Secondary Antibody
- TMB One-Step Substrate
- Stop Solution

### Material not included:

- Distilled or deionized water
- 100 mL and 1 liter graduated cylinders
- Tubes to prepare sample dilutions
- Protease and Phosphatase inhibitors
- Precision pipettes to deliver 2 µL to 1 mL volumes
- Adjustable 1-25 mL pipettes for reagent preparation
- Benchtop rocker or shaker
- Microplate reader capable of measuring absorbance at 450 nm

## Target Details

Target: PRAS40 (AKT1S1)

Alternative Name: PRAS40 ([AKT1S1 Products](#))

Gene ID: 84335

UniProt: [Q96B36](#)

Pathways: [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Regulation of Cell Size](#), [Autophagy](#), [BCR Signaling](#), [Warburg Effect](#)

## Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Plate: Pre-coated

Protocol:

1. Prepare all reagents and samples as instructed in the manual.
2. Add 100 µL of sample or positive control to each well.
3. Incubate 2.5 h at RT or O/N at 4 °C.
4. Add 100 µL of prepared primary antibody to each well.
5. Incubate 1 h at RT.
6. Add 100 µL of prepared 1X HRP-Streptavidin to each well.

## Application Details

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7. Incubate 1 h at RT.
8. Add 100 µL 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.

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Restrictions:	For Research Use only
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## Handling

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Storage:	-20 °C
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Storage Comment:	Upon receipt, the kit should be stored at -20 °C. Please use within 6 months from the date of shipment. After initial use, Wash Buffer Concentrate (Item B), Assay Diluent (Item E), TMB One-Step Substrate Reagent (Item H), HRP-Streptavidin (Item G), Stop Solution (Item I) and Cell Lysate Buffer (Item J) should be stored at 4 °C to avoid repeated freeze-thaw cycles. Return unused wells to the pouch containing desiccant pack, reseal along entire edge and store at -20 °C. Reconstituted Positive Control (Item K) should be stored at -70 °C.
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Expiry Date:	6 months
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