

For Research Use Only

# Phospho-PRAS40 (Thr246) Polyclonal antibody



Catalog Number: 29072-1-AP

## Basic Information

**Catalog Number:**

29072-1-AP

**Size:**

240 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

BC051844

**GeneID (NCBI):**

84335

**UNIPROT ID:**

Q96B36

**Full Name:**

AKT1 substrate 1 (proline-rich)

**Calculated MW:**

27 kDa

**Observed MW:**

40 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:2000-1:10000

## Applications

**Tested Applications:**

WB, ELISA

**Species Specificity:**

Human

**Positive Controls:**

WB : IGF-1 treated MCF-7 cells, Calyculin A treated PC-3 cells

## Background Information

PRAS40 is expressed in a variety of tissues in vivo and has multiple phosphorylation sites, which its activity is closely related to phosphorylation. Studies have shown that PRAS40 is involved in regulating cell growth, cell apoptosis, oxidative stress, autophagy and angiogenesis, as well as various of signalling pathways such as mammalian target of mammalian target rapamycin (mTOR), protein kinase B (PKB/Akt), nuclear factor kappa-B (NF-κB), proto-oncogene serine/threonine-protein kinase PIM-1 (PIM1) and pyruvate kinase M2 (PKM2). PGK1 phosphorylated PRAS40 at Threonine 246, which could be inhibited by blocking the interaction. PRAS40 can be phosphorylated by p-AKT at Thr246 site and promote the signal downstream to the mTOR signaling pathway. (PMID: 35058442, PMID: 32855714)

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

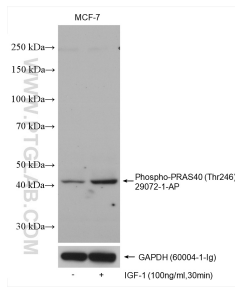
T: 4006900926

E: Proteintech-CN@ptglab.com

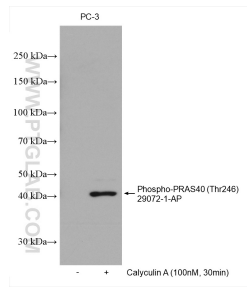
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## Selected Validation Data



Non-treated MCF-7 cells and IGF-1 treated MCF-7 cells were subjected to SDS PAGE followed by western blot with 29072-1-AP (Phospho-PRAS40 (Thr246) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.



Non-treated PC-3 cells and Calyculin A treated PC-3 cells were subjected to SDS PAGE followed by western blot with 29072-1-AP (Phospho-PRAS40 (Thr246) antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.