

**Anti-PRAS40 (pT246) Antibody**  
Rabbit polyclonal antibody to PRAS40 (pT246)  
Catalog # AP60424

### Specification

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#### Anti-PRAS40 (pT246) Antibody - Product Information

Application	WB
Primary Accession	<a href="#">O96B36</a>
Other Accession	<a href="#">O9D1F4</a>
Reactivity	Human, Mouse, Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	27383

#### Anti-PRAS40 (pT246) Antibody - Additional Information

**Gene ID** 84335

#### Other Names

PRAS40; Proline-rich AKT1 substrate 1; 40 kDa proline-rich AKT substrate

#### Target/Specificity

Recognizes endogenous levels of PRAS40 (pT246) protein.

#### Dilution

WB~~WB (1/500 - 1/1000)

#### Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

#### Storage

Store at -20 °C. Stable for 12 months from date of receipt

#### Anti-PRAS40 (pT246) Antibody - Protein Information

**Name** AKT1S1 {ECO:0000312|EMBL:AAH16043.1}

#### Function

Negative regulator of the mechanistic target of rapamycin complex 1 (mTORC1), an evolutionarily conserved central nutrient sensor that stimulates anabolic reactions and macromolecule biosynthesis to promote cellular biomass generation and growth (PubMed:<a href="http://www.uniprot.org/citations/17277771" target="\_blank">17277771</a>, PubMed:<a href="http://www.uniprot.org/citations/17386266" target="\_blank">17386266</a>, PubMed:<a href="http://www.uniprot.org/citations/17510057" target="\_blank">17510057</a>, PubMed:<a href="http://www.uniprot.org/citations/29236692" target="\_blank">29236692</a>). In absence of insulin and nutrients, AKT1S1 associates with the mTORC1 complex and directly inhibits mTORC1 activity by blocking the MTOR substrate- recruitment site (PubMed:<a

href="http://www.uniprot.org/citations/29236692" target="\_blank">29236692</a>). In response to insulin and nutrients, AKT1S1 dissociates from mTORC1 (PubMed:<a href="http://www.uniprot.org/citations/17386266" target="\_blank">17386266</a>, PubMed:<a href="http://www.uniprot.org/citations/18372248" target="\_blank">18372248</a>). Its activity is dependent on its phosphorylation state and binding to 14-3-3 (PubMed:<a href="http://www.uniprot.org/citations/16174443" target="\_blank">16174443</a>, PubMed:<a href="http://www.uniprot.org/citations/18372248" target="\_blank">18372248</a>). May also play a role in nerve growth factor-mediated neuroprotection (By similarity).

#### Cellular Location

Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q9D1F4}. Note=Found in the cytosolic fraction of the brain. {ECO:0000250|UniProtKB:Q9D1F4}

#### Tissue Location

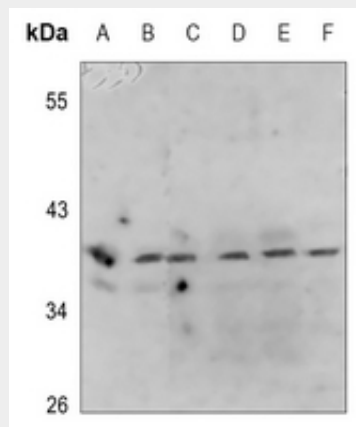
Widely expressed with highest levels of expression in liver and heart. Expressed at higher levels in cancer cell lines (e.g. A-549 and HeLa) than in normal cell lines (e.g. HEK293)

### Anti-PRAS40 (pT246) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-PRAS40 (pT246) Antibody - Images



Western blot analysis of PRAS40 (pT246) expression in HEK293T (A), A549 (B), mouse kidney (C), mouse testis (D), rat kidney (E), rat testis (F) whole cell lysates.

### Anti-PRAS40 (pT246) Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human PRAS40 (pT246). The exact sequence is proprietary.