

# Phospho-PRAS40 (T246) Antibody

Rabbit mAb Catalog # AP93278

#### **Product Information**

Application WB
Primary Accession Q96B36
Reactivity Human
Clonality Monoclonal

Other Names AKT1S1; PRAS; PRAS40;

IsotypeRabbit IgGHostRabbitCalculated MW27383

## **Additional Information**

Dilution WB 1:500~1:2000

**Purification** Affinity-chromatography

ImmunogenA synthesized peptide derived from human Phospho-PRAS40 (T246)DescriptionSubunit of mTORC1, which regulates cell growth and survival in response to

nutrient and hormonal signals. mTORC1 is activated in response to growth

factors or amino-acids.

**Storage Condition and Buffer** Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium

azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term.

Avoid freeze / thaw cycle.

### **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:17277771, PubMed:17386266, PubMed:17510057, PubMed:29236692). 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:29236692). In response to insulin and nutrients, AKT1S1 dissociates from mTORC1 (PubMed:17386266, PubMed:18372248). Its activity is dependent on its phosphorylation state and binding to 14-3-3 (PubMed:16174443,

PubMed: 18372248). 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)

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