

Anti-Phospho-PRAS40 (T246) Rabbit Monoclonal Antibody Catalog # ABO16797

Specification

Anti-Phospho-PRAS40 (T246) Rabbit Monoclonal Antibody - Product Information

| | |
|-------------------|------------------------|
| Application | WB |
| Primary Accession | Q96B36 |
| Host | Rabbit |
| Isotype | Rabbit IgG |
| Reactivity | Human |
| Clonality | Monoclonal |
| Format | Liquid |

Description

Anti-Phospho-PRAS40 (T246) Rabbit Monoclonal Antibody . Tested in WB applications. This antibody reacts with Human.

Anti-Phospho-PRAS40 (T246) Rabbit Monoclonal Antibody - Additional Information

Gene ID 84335

Other Names

Proline-rich AKT1 substrate 1, 40 kDa proline-rich AKT substrate, AKT1S1
{ECO:0000312|EMBL:AAH16043.1}

Application Details

WB 1:500-1:2000

Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen

A synthesized peptide derived from human Phospho-PRAS40 (T246)

Purification

Affinity-chromatography

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Anti-Phospho-PRAS40 (T246) Rabbit Monoclonal 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:[17277771](http://www.uniprot.org/citations/17277771), PubMed:[17386266](http://www.uniprot.org/citations/17386266), PubMed:[17510057](http://www.uniprot.org/citations/17510057), PubMed:[29236692](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/29236692)). In response to insulin and nutrients, AKT1S1 dissociates from mTORC1 (PubMed:[17386266](http://www.uniprot.org/citations/17386266), PubMed:[18372248](http://www.uniprot.org/citations/18372248)). Its activity is dependent on its phosphorylation state and binding to 14-3-3 (PubMed:[16174443](http://www.uniprot.org/citations/16174443), PubMed:[18372248](http://www.uniprot.org/citations/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)

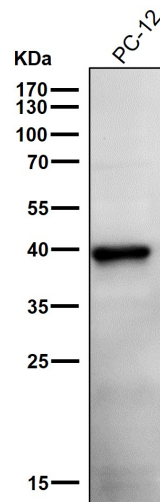
Anti-Phospho-PRAS40 (T246) Rabbit Monoclonal Antibody - Protocols

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

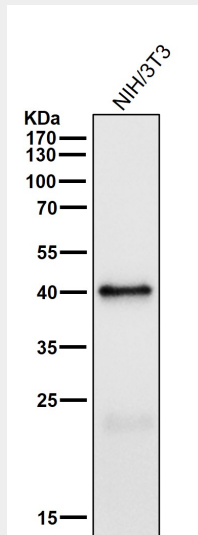
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Phospho-PRAS40 (T246) Rabbit Monoclonal Antibody - Images

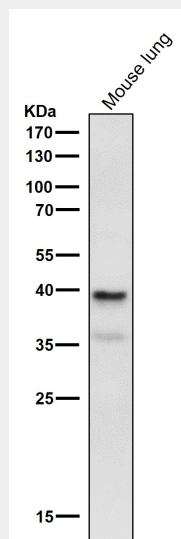




All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.



All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.



All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.