

PRAS40 Rabbit mAb
Catalog # AP77699**Specification**

PRAS40 Rabbit mAb - Product Information

Application	WB
Primary Accession	Q96B36
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	27383

PRAS40 Rabbit mAb - Additional Information**Gene ID** 84335**Other Names**

AKT1S1

Dilution

WB~~1/500-1/1000

Format

Liquid

PRAS40 Rabbit mAb - 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)

PRAS40 Rabbit mAb - 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](#)

PRAS40 Rabbit mAb - Images