10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-PRAS40 (pT246) Antibody

Rabbit polyclonal antibody to PRAS40 (pT246)
Catalog # AP60424

Product Information

Application	WB
Primary Accession	Q96B36
Other Accession	Q9D1F4
Reactivity	Human, Mouse, Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	27383

Additional Information

Gene ID	84335
Other Names	PRAS40; Proline-rich AKT1 substrate 1; 40 kDa proline-rich AKT substrate
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human PRAS40 (pT246). The exact sequence is proprietary.
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

Protein Information

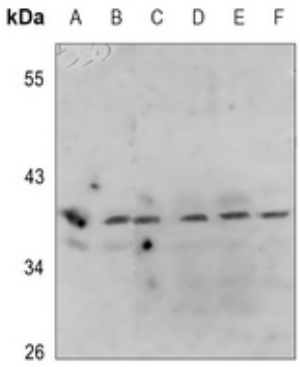
Name	AKT1S1 {ECO:0000312|EMBL:AAH16043.1}
Function	Negative regulator of the mechanistic target of rapamycin complex 1 (mTORC1), an evolutionarily conserved central nutrient sensor that stimulates anabolic reactions and macromolecule biosynthesis to promote cellular biomass generation and growth (PubMed:17277771, 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). Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q9D1F4}. Note=Found in the

Cellular Location	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)

Background

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

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.