Best Tools for immunology Research

PRAS40 Polyclonal Antibody

Catalog No :	YT3850
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	PRAS40
Fields :	>>Autophagy - animal;>>mTOR signaling pathway;>>AMPK signaling pathway;>>Longevity regulating pathway;>>Longevity regulating pathway - multiple species;>>Thermogenesis;>>Shigellosis
Gene Name :	AKT1S1
Protein Name :	Proline-rich AKT1 substrate 1
Human Gene Id :	84335
Human Swiss Prot No :	Q96B36
Mouse Gene Id :	67605
Mouse Swiss Prot No :	Q9D1F4
Immunogen :	The antiserum was produced against synthesized peptide derived from human Akt1 S1. AA range:207-256
Specificity :	PRAS40 Polyclonal Antibody detects endogenous levels of PRAS40 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:5000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	40kD
Background :	AKT1S1 is a proline-rich substrate of AKT (MIM 164730) that binds 14-3-3 protein (see YWHAH, MIM 113508) when phosphorylated (Kovacina et al., 2003 [PubMed 12524439]).[supplied by OMIM, Mar 2008],
Function :	function:May play an important role in phosphatidylinositol 3-kinase (PI3K)-AKT1 survival signaling. Substrate for AKT1 phosphorylation, but can also be activated by AKT1-independent mechanisms. Its role in survival signaling pathways may be modulated by oxidative stress. May also play a role in nerve growth factor-mediated neuroprotection.,subcellular location:Found in the cytosolic fraction of the brain.,subunit:The phosphorylated form interacts with 14-3-3.,tissue specificity:Widely expressed with highest levels of expression in liver and heart. Expressed at higher levels in cancer cell lines (e.g. A549 and HeLa) than in normal cell lines (e.g. HEK293).,
Subcellular Location :	Cytoplasm, cytosol . Found in the cytosolic fraction of the brain. .
Expression :	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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