



# PRAS40 (phospho Thr246) Monoclonal Antibody

Catalog No	BYmab-00171
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	AKT1S1
Protein Name	Proline-rich AKT1 substrate 1
Immunogen	The antiserum was produced against synthesized peptide derived from human Akt1 S1 around the phosphorylation site of Thr246. AA range:207-256
Specificity	Phospho-PRAS40 (T246) Monoclonal Antibody detects endogenous levels of PRAS40 protein only when phosphorylated at T246.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	AKT1S1; PRAS40; Proline-rich AKT1 substrate 1; 40 kDa proline-rich AKT substrate
Observed Band	40kD
Cell Pathway	Cytoplasm, cytosol . Found in the cytosolic fraction of the brain. .
Tissue Specificity	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).
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).,

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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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images

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