



PRAS40 (phospho Thr246) Polyclonal Antibody

Catalog No	YP-Ab-00171
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	AKT1S1
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) Polyclonal 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	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. ELISA: 1/10000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	AKT1S1;AKTS1;Lobe;Phospho-PRAS40 (Thr246);PRAS40;Proline rich AKT1 substrate 1;Proline-rich AKT1 substrate 1;40 kDa proline-rich AKT substrate
Observed Band	40kD
Calculated Molecular Weight	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).,

**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

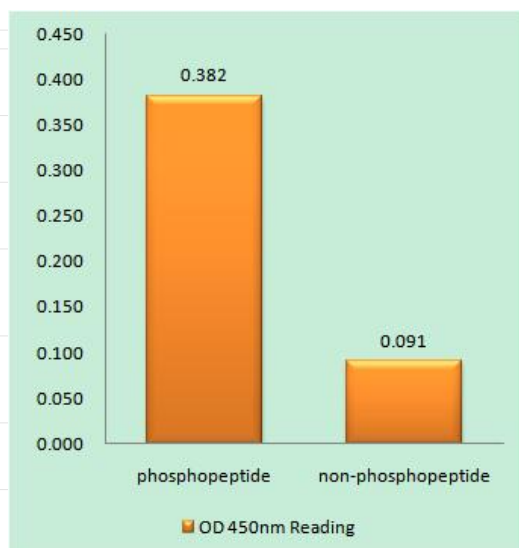
Avoid repeated freezing and thawing!

Usage suggestions

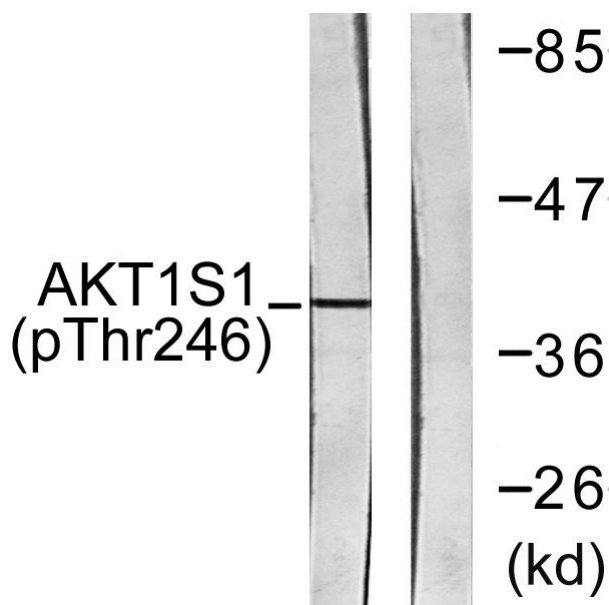
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



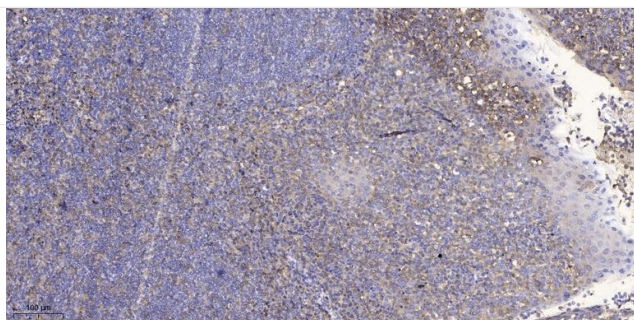
Products Images



Enzyme-Linked Immunosorbent Assay
(Phospho-ELISA) for Immunogen Phosphopeptide
(Phospho-left) and Non-Phosphopeptide
(Phospho-right), using Akt1 S1 (Phospho-Thr246)
Antibody



Western blot analysis of lysates from HepG2 cells treated with PDGF 50ng/ml 30', using Akt1 S1 (Phospho-Thr246) Antibody. The lane on the right is blocked with the phospho peptide.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).