Anti-Phospho-PRAS40 (Thr246) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015028

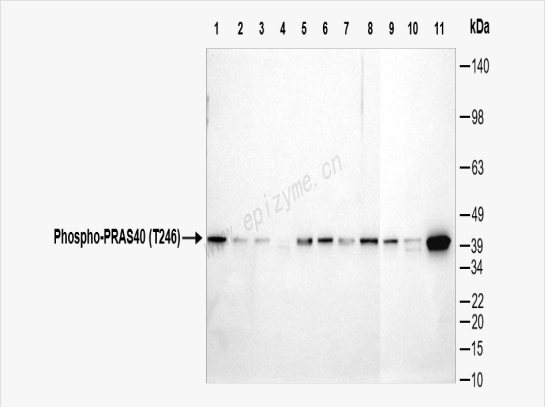
Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	77M70F54
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Phospho-PRAS40 (T246)
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Phospho-PRAS40 (Thr246) Rabbit mAb [77M70F54] is for research use only and not for use in diagnostic or therapeutic procedures.

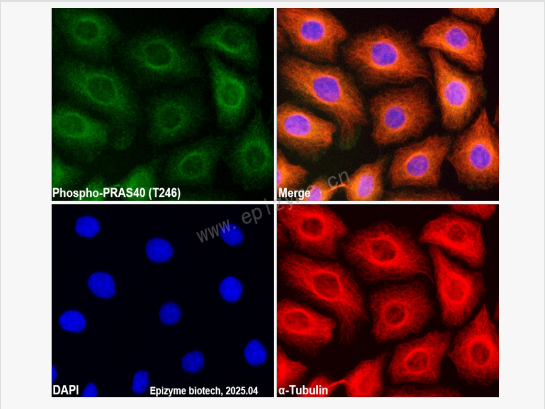
Protein Information

Synonyms	40 kDa proline rich AKT substrate, 40 kDa proline-rich AKT substrate, AKT1 S1, AKT1 substrate 1 (proline rich), AKT1 substrate 1, AKT1S 1, AKT1S1, AKTS1_HUMAN, Lobe, MGC2865, PRAS 40, PRAS, PRAS40, Proline rich akt substrate, Proline rich Akt substrate 40 kDa, Proline-rich AKT1 substrate 1.
Calculated MW	Calculated MW: 27 kDa; Observed MW: 40 kDa
Uniprot ID	Q96B36
Gene ID	84335
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]
Cellular Location	Cytoplasm > cytosol. Found in the cytosolic fraction of the brain.
Tissue Location	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).

Validation Images



Western Blot - Anti-Phospho-PRAS40 (Thr246) Rabbit mAb [77M70F54]
All lanes: R015028 at 1:1,000 dilution
Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2 : HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3 : HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4 : SW620 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 5 : Caco2 (Human colorectal adenocarcinoma epithelial cell) whole cell lysates
Lane 6 : Jurkat (Human T lymphocytic leukemia cell) whole cell lysates
Lane 7 : 293T (Human embryonic kidney cell) whole cell lysates
Lane 8 : SCC-9 (Human tongue squamous carcinoma epithelial cell) whole cell lysates
Lane 9 : C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 10 : Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lane 11 : PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 27 kDa
Observed band size: 40 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-Phospho-PRAS40 (Thr246) Rabbit mAb [77M70F54]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R015028 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).