
Product Name: KD-Validated Phospho-PRAS40 (T246) Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01365**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 27.4kDa

Antigen Information

Gene Name	AKT1S1 AKT1S1; AKT1 Substrate 1; PRAS40; 40 KDa Proline-Rich AKT Substrate; Proline-Rich AKT1
Alternative Names	Substrate 1; MGC2865; Lobe; Proline-Rich Akt Substrate, 40 KDa; AKT1 Substrate 1 (Proline-Rich); AKT1 Substrate 1 (Proline Rich); LOBE
Gene ID	84335.0
SwissProt ID	Q96B36
Immunogen	A synthesized peptide derived from human Phospho-PRAS40 (T246)

Background

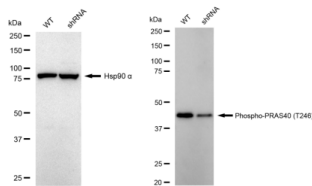
AKT1S1 is a proline-rich substrate of AKT (MIM 164730) that binds 14-3-3 protein (see YWHAH, MIM 113508) when

phosphorylated (Kovacina et al., 2003 [PubMed 12524439]).[supplied by OMIM, Mar 2008]

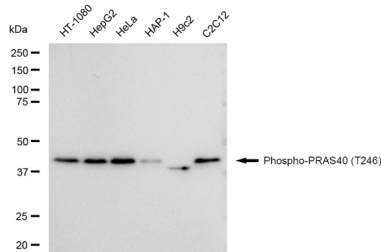
Research Area

Cell Biology

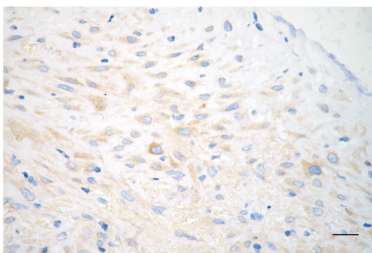
Image Data



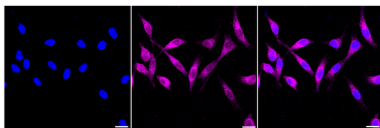
Western blotting analysis using Phospho-PRAS40 (T246) antibody (KVA01365). Phospho-PRAS40 (T246) expression in wild type (WT) and Phospho-PRAS40 (T246) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Phospho-PRAS40 (T246) antibody (KVA01365, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



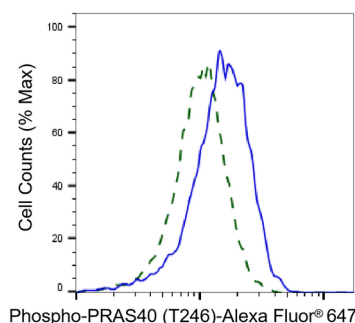
Western blotting analysis using Phospho-PRAS40 (T246) antibody (KVA01365). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Phospho-PRAS40 (T246) antibody (KVA01365, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



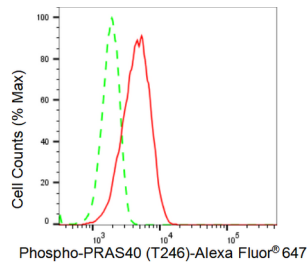
Immunohistochemistry was performed on paraffin-embedded human hepatocarcinoma using phospho-PRAS40 (T246) antibody (KVA01365, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HeLa cells with Phospho-PRAS40 (T246) antibody (KVA01365, 1:1,000). Nuclei were stained blue with DAPI; Phospho-PRAS40 (T246) was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar: 20 µm.



Validation of PRAS40 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Phospho-PRAS40 (T246) antibody (KVA01365, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Phospho-PRAS40 (T246) expression in HeLa cells using Phospho-PRAS40 (T246) antibody (KVA01365, 1:2,000). Green, isotype control; red, Phospho-PRAS40 (T246).