
Product Name: KD-Validated Phospho-PKC Alpha (Ser657) Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00203**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
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
Molecular Weight	Calculated MW: 76.8kDa

Antigen Information

Gene Name	PRKCA
Alternative Names	Protein Kinase C; Alpha; EC 2.7.11.13;PKCA1; AAG6; PKC-A; Aging-Associated Gene 6; PKC-alpha; Protein Kinase C Alpha Type; PRKACA; EC 2.7.11
Gene ID	5578.0
SwissProt ID	P17252
Immunogen	A synthesized peptide derived from human Phospho-PKC alpha (Ser657)

Background

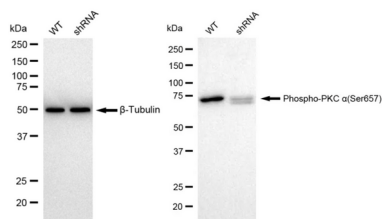
Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and the second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be

involved in diverse cellular signaling pathways. PKC family members also serve as major receptors for phorbol esters, a class of tumor promoters. Each member of the PKC family has a specific expression profile and is believed to play a distinct role in cells. The protein encoded by this gene is one of the PKC family members. This kinase has been reported to play roles in many different cellular processes, such as cell adhesion, cell transformation, cell cycle checkpoint, and cell volume control. Knockout studies in mice suggest that this kinase may be a fundamental regulator of cardiac contractility and Ca^{2+} handling in myocytes. [provided by RefSeq, Jul 2008]

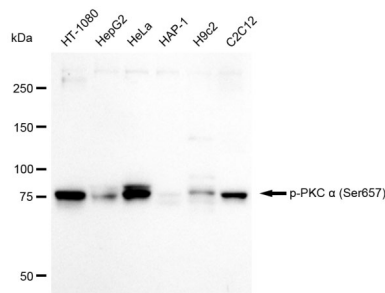
Research Area

Signal Transduction,Cancer,Cardiovascular,Neuroscience

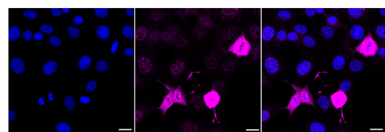
Image Data



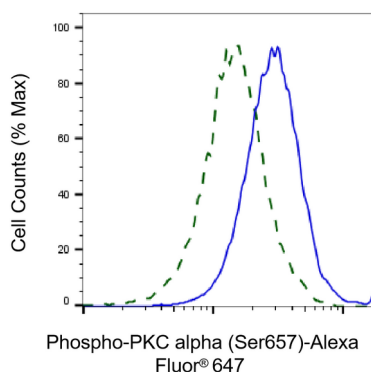
Western blotting analysis using Phospho-PKC alpha (Ser657) antibody (KVA00203). Phospho-PKC alpha (Ser657) expression in wild type (WT) and Phospho-PKC alpha (Ser657) shRNA knockdown (KD) HT-1080 cells with 30 μg of total cell lysates. β -Tubulin serves as a loading control. The blot was incubated with Phospho-PKC alpha (Ser657) antibody (KVA00203, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



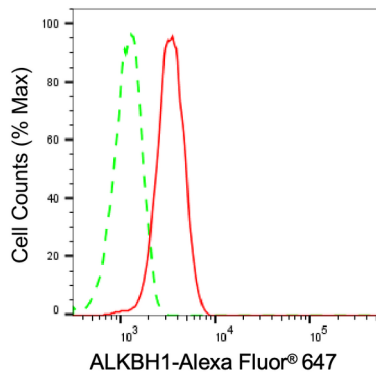
Western blotting analysis using Phospho-PKC alpha (Ser657) antibody (KVA00203). Total cell lysates (30 μg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Phospho-PKC alpha (Ser657) antibody (KVA00203, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HT-1080 cells with Phospho-PKC alpha (Ser657) antibody (KVA00203, 1:1,000). Nuclei were stained blue with DAPI; Phospho-PKC alpha (Ser657) was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 μm .



Validation of PKC alpha knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HT1080 cells were stained with Phospho-PKC alpha (Ser657) antibody (KVA00203, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Phospho-PKC alpha (Ser657) expression in HT-1080 cells using Phospho-PKC alpha (Ser657) antibody (KVA00203, 1:2,000). Green, isotype control; red, Phospho-PKC alpha (Ser657).