

Phospho-PKCalpha/beta II-T638/641 Rabbit pAb

Catalog No.: AP0191

Basic Information

Observed MW

80kDa

Calculated MW

76kDa/77kDa

Category

Primary antibody

Applications

WB, IHC-P, IF/ICC, ELISA

Cross-Reactivity

Human, Mouse, Rat

Background

Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and 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 protein kinase has been reported to be involved in many different cellular functions, such as B cell activation, apoptosis induction, endothelial cell proliferation, and intestinal sugar absorption. Studies in mice also suggest that this kinase may also regulate neuronal functions and correlate fear-induced conflict behavior after stress. Alternatively spliced transcript variants encoding distinct isoforms have been reported.

Recommended Dilutions

WB 1:500 - 1:2000**IHC-P** 1:50 - 1:100**IF/ICC** 1:100 - 1:200

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

5578/5579

Swiss Prot

P17252/P05771

Immunogen

A synthetic phosphorylated peptide around T638 of human PKCalpha/beta IIPKCA (NP_002728.2).

Synonyms

PKC-beta; PKCB; PRKCB1; PRKCB2; Phospho-PKCalpha/beta II-T638/641

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

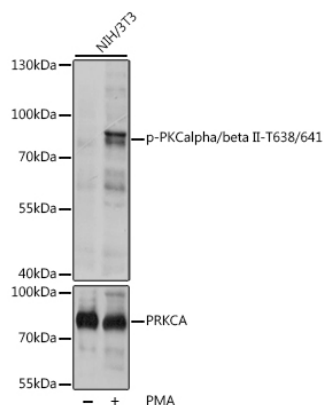
Affinity purification

Storage

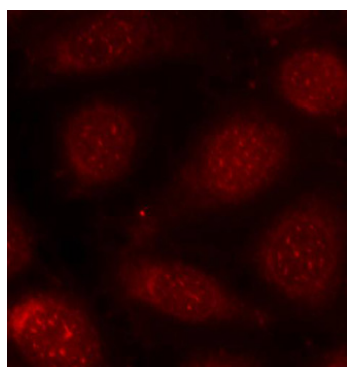
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

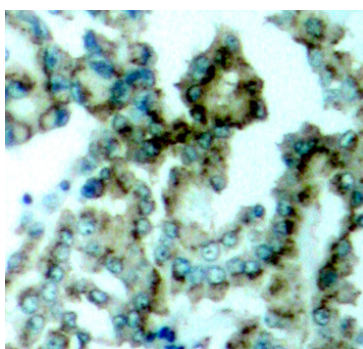
Validation Data



Western blot analysis of lysates from NIH/3T3 cells, using Phospho-PKCalpha/beta II-T638/641 pAb (AP0191) at 1:1000 dilution or PRKCA antibody (A13342). NIH/3T3 cells were treated by PMA/TPA (200nM) for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% BSA.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.



Immunofluorescence analysis of methanol-fixed MCF-7 cells using Phospho-PKCalpha/beta II-T638/641 Rabbit pAb (AP0191).



Immunohistochemistry analysis of paraffin-embedded Human lung carcinoma tissue, using Phospho-PKCalpha/beta II-T638/641 Rabbit pAb (AP0191). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.