

# Phospho-PKA RII $\alpha$ (PRKAR2A)-S99 Rabbit mAb

Catalog No.: AP1034

Recombinant

1 Publications

## Basic Information

### Observed MW

51kDa

### Calculated MW

46kDa

### Category

Primary antibody

### Applications

ELISA,WB

### Cross-Reactivity

Human, Rat

### CloneNo number

ARC1579

## Background

cAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its effects by activating the cAMP-dependent protein kinase, which transduces the signal through phosphorylation of different target proteins. The inactive kinase holoenzyme is a tetramer composed of two regulatory and two catalytic subunits. cAMP causes the dissociation of the inactive holoenzyme into a dimer of regulatory subunits bound to four cAMP and two free monomeric catalytic subunits. Four different regulatory subunits and three catalytic subunits have been identified in humans. The protein encoded by this gene is one of the regulatory subunits. This subunit can be phosphorylated by the activated catalytic subunit. It may interact with various A-kinase anchoring proteins and determine the subcellular localization of cAMP-dependent protein kinase. This subunit has been shown to regulate protein transport from endosomes to the Golgi apparatus and further to the endoplasmic reticulum (ER).

## Recommended Dilutions

<b>WB</b>	1:500 - 1:1000
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## Immunogen Information

### Gene ID

5576

### Swiss Prot

P13861

### Immunogen

A synthetic phosphorylated peptide around S99 of human PRKAR2A/PKR2 (P13861).

### Synonyms

PKR2; PRKAR2; Phospho-PKA RII $\alpha$  (PRKAR2A)-S99

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

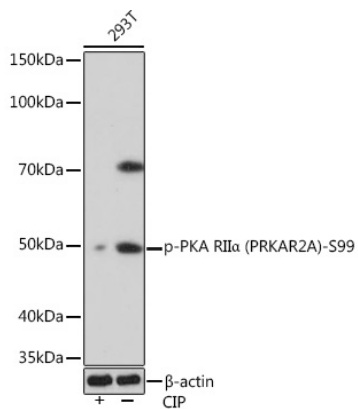
Affinity purification

### Storage

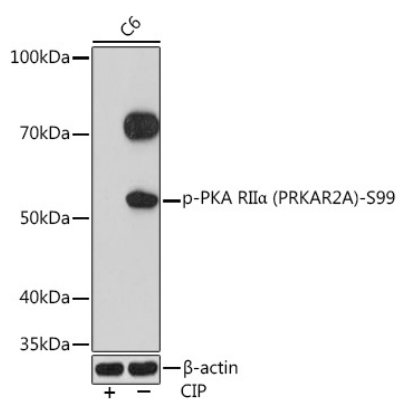
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

## Validation Data



Western blot analysis of lysates from 293T cells, using Phospho-PKA RIIα (PRKAR2A)-S99 Rabbit mAb (AP1034) at 1:1000 dilution. 293T cells were treated by CIP(20uL/400ul) at 37°C for 1 hour. 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: 90s.



Western blot analysis of lysates from C6 cells, using Phospho-PKA RIIα (PRKAR2A)-S99 Rabbit mAb (AP1034) at 1:1000 dilution. C6 cells were treated by CIP(20uL/400ul) at 37°C for 1 hour. 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: 3min.