

For Research Use Only

# PRKAR2A Polyclonal antibody

Catalog Number: 10142-2-AP

Featured Product

3 Publications



## Basic Information

**Catalog Number:**

10142-2-AP

**Size:**

600 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG0203

**GenBank Accession Number:**

BC002763

**GeneID (NCBI):**

5576

**UNIPROT ID:**

P13861

**Full Name:**

protein kinase, cAMP-dependent, regulatory, type II, alpha

**Calculated MW:**

43 kDa

**Observed MW:**

46-52 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:4000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IF 1:10-1:100

## Applications

**Tested Applications:**

IF/ICC, IP, WB, ELISA

**Cited Applications:**

WB, IP, IHC

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, rat, mouse

**Positive Controls:**

**WB:** HeLa cells, K-562 cells, MCF-7 cells, mouse testis tissue, PC-3 cells, human testis tissue

**IP:** HeLa cells, HeLa cells

**IF:** HeLa cells, HepG2 cells, MCF-7 cells

## Background Information

The effects of cAMP in most tissues and cell types are mainly modulated via protein kinase A, a heterotetrameric protein complex consisting of two regulatory and two catalytic subunits. The regulatory subunit of cAMP-dependent protein kinase (PRKAR2A) is one of the regulatory subunits and the gene is located on chromosome region 3p21.3-p21.2. The expression of PRKAR2A is tightly regulated during spermatogenesis, a significant increase in expression of this gene was also found in the human myometrium during pregnancy. This antibody got two bands about 45 kDa and 50-55 kDa in western blotting, and the 50-55kDa may be caused by phosphorylation.

## Notable Publications

Author	Pubmed ID	Journal	Application
Haochen Wang	33131748	Life Sci	WB,IHC
Furong Huang	32200035	Cancer Lett	WB
Xiaokan Zhang	35977512	Cell Rep	WB,IP

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

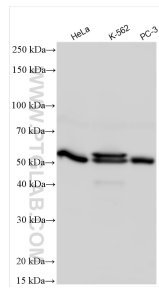
T: 4006900926

E: Proteintech-CN@ptglab.com

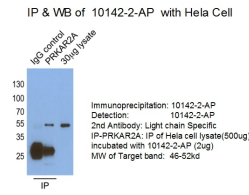
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

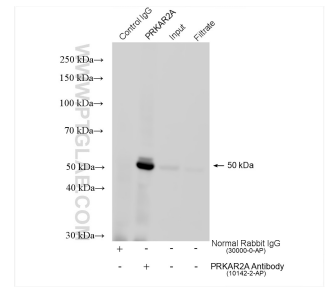
## Selected Validation Data



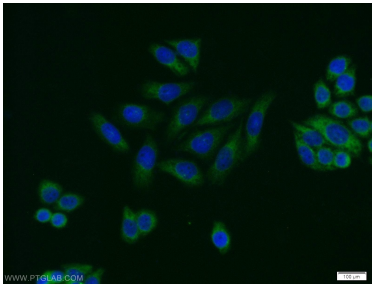
Various lysates were subjected to SDS PAGE followed by western blot with 10142-2-AP (PRKAR2A antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-PRKAR2A (10142-2-AP for IP and Detection).



IP result of anti-PRKAR2A (IP:10142-2-AP, 4ug; Detection:10142-2-AP 1:2000) with HeLa cells lysate 1320 ug.



Immunofluorescent analysis of HeLa cells using 10142-2-AP (PRKAR2A antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).