

For Research Use Only

PRKAR2A Polyclonal antibody

Catalog Number: 10142-2-AP

Featured Product

3 Publications



Basic Information

Catalog Number: 10142-2-AP	GenBank Accession Number: BC002763	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 400 µg/ml by Nanodrop and 313 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5576	Recommended Dilutions: WB 1:1000-1:4000 IP 0.5-4.0 ug for IP and 1:1000-1:4000 for WB
Source: Rabbit	Full Name: protein kinase, cAMP-dependent, regulatory, type II, alpha	IF 1:10-1:100
Isotype: IgG	Calculated MW: 43 kDa	
Immunogen Catalog Number: AG0203	Observed MW: 46-52 kDa	

Applications

Tested Applications:

IF, IP, WB, ELISA

Cited Applications:

IHC, IP, WB

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

*** 20ul sizes contain 0.1% BSA

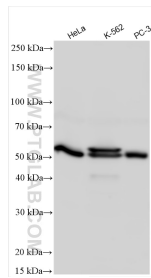
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

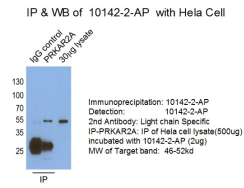
E: proteintech@ptglab.com
W: ptglab.com

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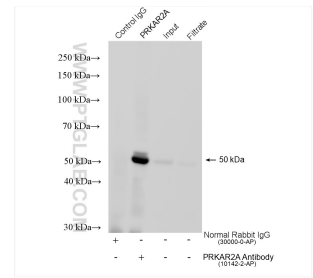
Selected Validation Data



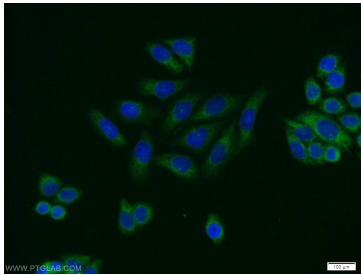
Various lysates were subjected to SDS PAGE followed by western blot with 10142-2-AP (PRKAR2A antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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).