

For Research Use Only

PRKAR2A Polyclonal antibody

Catalog Number: 10142-2-AP

Featured Product

4 Publications



Basic Information

Catalog Number:

10142-2-AP

Size:

150ul, Concentration: 400 ug/ml by Nanodrop and 313 ug/ml by Bradford method using BSA as the standard;

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 ug for 1.0-3.0 mg of total protein lysate

IF-P 1:50-1:500

Applications

Tested Applications:

WB, IF-P, IP, ELISA

Cited Applications:

WB, IHC, IP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

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-P: mouse testis tissue,

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

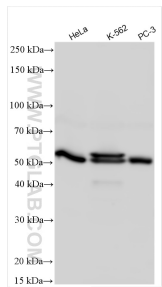
For technical support and original validation data for this product please contact:

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

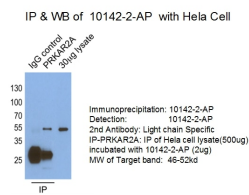
E: proteintech@ptglab.com
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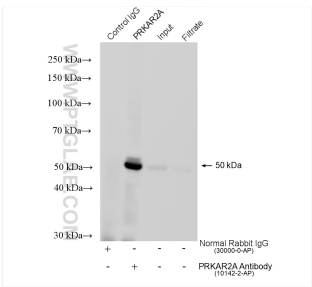
Selected Validation Data



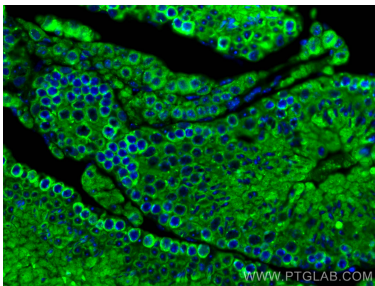
Various lysates were subjected to SDS PAGE followed by western blot with 10142-2-AP (PRKAR2A antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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 (4% PFA) fixed mouse testis tissue using PRKAR2A antibody (10142-2-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).