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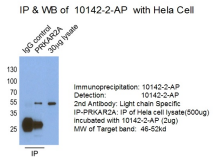
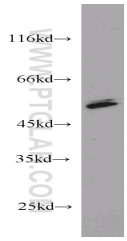
PRKAR2A Polyclonal Antibody

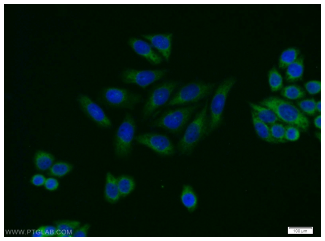
Catalog number: 10142-2-AP
Size: 47 µg/150 µl
Source: Rabbit
Isotype: IgG
Synonyms:
PRKAR2A; PKR2, PRKAR2, PRKAR2A



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



K-562 cells were subjected to SDS PAGE followed by western blot with 10142-2-AP(PRKAR2A antibody) at dilution of 1:1000



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

Background

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.

Applications

Tested applications:	**ELISA, WB, IP, IF**
Species specificity:	**Human,Mouse,Rat; other species not tested.**
Caculated PRKAR2A MW:	**43 kDa**
Observed PRKAR2A MW:	**46-52 kDa**
Positive WB detected in	**K-562 cells, HeLa cells, human testis tissue, MCF7 cells, mouse testis tissue, PC-3 cells**
Positive IP detected in	**HeLa cells**
Positive IF detected in	**HeLa cells, HepG2 cells, MCF-7 cells**
Recommended dilution:	**WB: 1:500-1:5000** **IP: 1:500-1:5000** **IF: 1:10-1:100**

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	**Ag0203**
GenBank accession number:	**BC002763**
Gene ID (NCBI):	**5576**
Full name:	**Protein kinase, cAMP-dependent, regulatory, type II, alpha**

Product information

Purification method:	**Antigen affinity purification**
Storage:	**PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.**