

For Research Use Only

# AMPK Alpha Polyclonal antibody

Catalog Number: 10929-2-AP

Featured Product

186 Publications



## Basic Information

### Catalog Number:

10929-2-AP

### Size:

500 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1367

### GenBank Accession Number:

BC012622

### GeneID (NCBI):

5562

### UNIPROT ID:

Q13131

### Full Name:

protein kinase, AMP-activated, alpha  
1 catalytic subunit

### Calculated MW:

63 kDa

### Observed MW:

64 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:10000

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

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB, IP, IF, IHC

### Species Specificity:

human, mouse, rat

### Cited Species:

human, goat, carp, rat, mouse, rabbit, fish, zebrafish,  
pig

**Note-IHC: suggested antigen retrieval with  
TE buffer pH 9.0; (\*) Alternatively, antigen  
retrieval may be performed with citrate  
buffer pH 6.0**

### Positive Controls:

WB : HeLa cells, Jurkat cells, NIH/3T3 cells

IP : HeLa cells,

IHC : human prostate cancer tissue,

## Background Information

The mammalian 5-prime-AMP-activated protein kinase (AMPK) appears to play a role in protecting cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways. PRKAA1 is also named as AMPK1, ACACA kinase, HMGCR kinase. It is a mammalian homologue of sucrose non-fermenting protein kinase (SNF-1), which belongs to a serine/threonine protein kinase family. It has 2 isoforms with molecular mass of 63-66 kDa produced by alternative splicing. 10929-2-AP can recognize both AMPK Alpha 1 and AMPK Alpha 2.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiao-Fei Guo	29113747	Prostaglandins Leukot Essent Fatty Acids	WB
Xiaochen Bai	34543233	Aging (Albany NY)	WB
Shijie Cao	30268048	Environ Toxicol Pharmacol	WB

## 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:

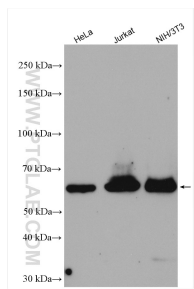
T: 4006900926

E: Proteintech-CN@ptglab.com

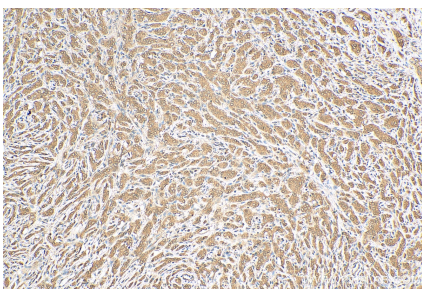
W: ptgcn.com

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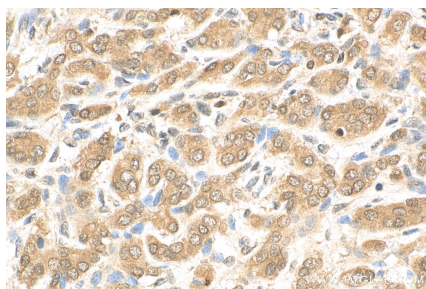
Selected Validation Data



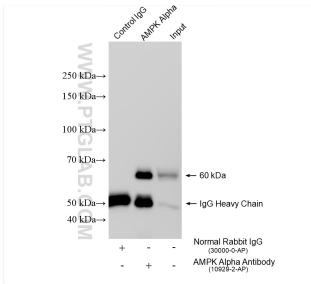
Various lysates were subjected to SDS PAGE followed by western blot with 10929-2-AP (AMPK Alpha 1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 10929-2-AP (AMPK Alpha 1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 10929-2-AP (AMPK Alpha 1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-AMPK Alpha (IP:10929-2-AP, 4ug; Detection:10929-2-AP 1:1000) with HeLa cells lysate 1600 ug.