

For Research Use Only

AMPK alpha 1 Polyclonal ANTIBODY



Catalog Number: 10929-2-AP

Featured Product

43 Publications

Basic Information

Catalog Number:
10929-2-AP

Size:
56 µg/150 µl

Source:
Rabbit

Isotype:
IgG

Purification Method:
Antigen affinity purification

Immunogen Catalog Number:
AG1367

GenBank Accession Number:
BC012622

GeneID (NCBI):
5562

Full Name:
protein kinase, AMP-activated, alpha 1
catalytic subunit

Calculated MW:
63 kDa

Observed MW:
64 kDa

Recommended Dilutions:

WB 1:200-1:600

IHC 1:100-1:400

IF 1:10-1:100

Applications

Tested Applications:

IF, IHC, WB, ELISA

Cited Applications:

IF, IHC, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, zebrafish

Note: 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; rat heart tissue

IHC : human prostate cancer tissue;

IF : HepG2 cells;

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, HMGCRC 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.

Notable Publications

Author	Pubmed ID	Journal	Application
Xiao-Fei Guo	29113747	Prostaglandins Leukot Essent Fatty Acids	WB
Shijie Cao	30268048	Environ Toxicol Pharmacol	WB
Lu Liu	27600020	Eur J Pharmacol	WB

Storage

Storage:

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

Storage Buffer:

PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

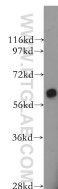
For technical support and original validation data for this product please contact:

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

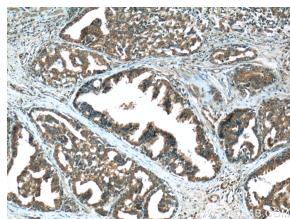
E: proteintech@ptglab.com
W: ptglab.com

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

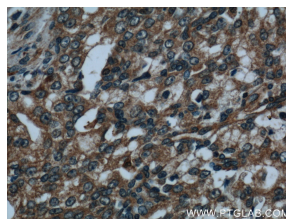
Selected Validation Data



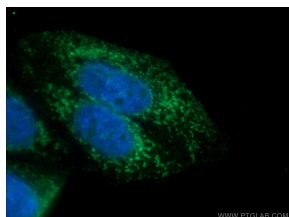
HeLa cells were subjected to SDS PAGE followed by western blot with 10929-2-AP(AMPK alpha 1 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours



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).



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).



Immunofluorescent analysis of HepG2 cells using 10929-2-AP(AMPK alpha 1 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)