

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:

150ul, Concentration: 500 µg/ml by Nanodrop;

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

*** 20ul sizes contain 0.1% BSA

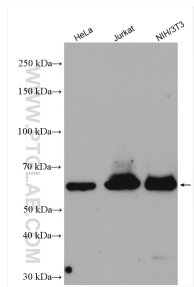
For technical support and original validation data for this product please contact:

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

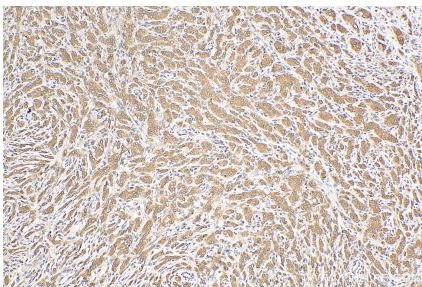
E: proteintech@ptglab.com
W: ptglab.com

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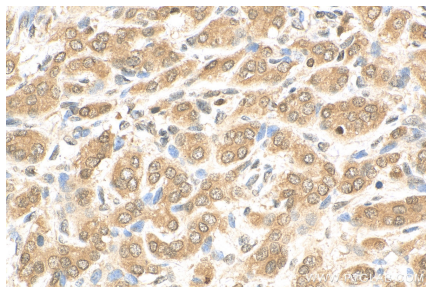
Selected Validation Data



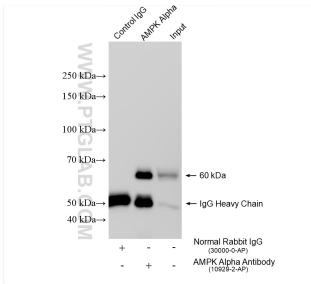
Various lysates were subjected to SDS PAGE followed by western blot with 10929-2-AP (AMPK Alpha 1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



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.