AMPK Alpha Polyclonal antibody

Catalog Number: 10929-2-AP

Basic Information

Catalog Number: 10929-2-AP
Size: 150μl, Concentration: 500 μg/ml by Nanodrop;
Source: Rabbit
Isotype: IgG
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
Purification Method: Antigen affinity purification
Recommended Dilutions:
WB: 1:2000-1:10000
IHC: 1:50-1:500

Applications

Tested Applications: IHC, WB, ELISA
Cited Applications: IF, IHC, IP, WB
Species Specificity: human, mouse, rat
Cited Species: human, goat, carp, rat, mouse, rabbit, fish, zebrafish

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
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
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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:
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

*** 20μl sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: (888) 4PTGLAB (1-888-4-PTGLAB) (toll free in USA), or 1(312) 655-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available for purchase from any other manufacturer.
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 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).