

For Research Use Only

AMPK Alpha 1 Polyclonal antibody

Catalog Number: 10929-2-AP

Featured Product

120 Publications



Basic Information

Catalog Number: 10929-2-AP	GenBank Accession Number: BC012622	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 900 µg/ml by Nanodrop and 373 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5562	Recommended Dilutions: WB 1:1000-1:8000 IHC 1:100-1:400
Source: Rabbit	Full Name: protein kinase, AMP-activated, alpha 1 catalytic subunit	
Isotype: IgG	Calculated MW: 63 kDa	
Immunogen Catalog Number: AG1367	Observed MW: 64 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : NIH/3T3 cells, IHC : human prostate cancer tissue,
Cited Applications: IF, IHC, IP, WB	
Species Specificity: human, mouse, rat	
Cited Species: carp, fish, human, mouse, rabbit, rat, zebrafish	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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.

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

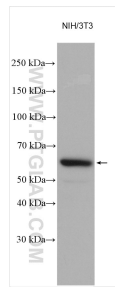
Storage

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

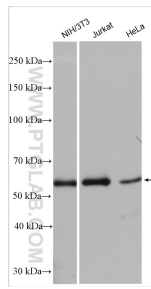
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

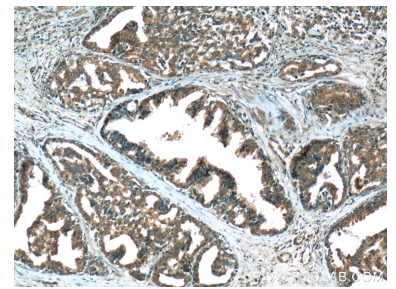
Selected Validation Data



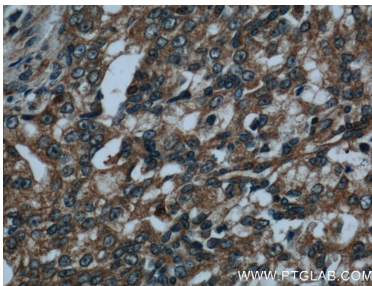
Various lysates were subjected to SDS PAGE followed by western blot with 10929-2-AP (AMPK Alpha 1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



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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).