

For Research Use Only

AMPK Alpha 1 Monoclonal antibody



Catalog Number: 66536-1-Ig

Featured Product

61 Publications

Basic Information

Catalog Number: 66536-1-Ig	GenBank Accession Number: BC012622	Purification Method: Protein A purification
Size: 150ul, Concentration: 1800 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5562	CloneNo.: 1H8E1
Source: Mouse	UNIPROT ID: Q13131	Recommended Dilutions: WB 1:500-1:3000 IHC 1:50-1:500
Isotype: IgG1	Full Name: protein kinase, AMP-activated, alpha 1 catalytic subunit	
Immunogen Catalog Number: AG24744	Calculated MW: 63 kDa	
	Observed MW: 64 kDa	

Applications

Tested Applications:

IHC, WB, ELISA

Cited Applications:

WB, IHC, FC

Species Specificity:

Human, Rat, Mouse

Cited Species:

human, goat, rat, mouse, hamster, 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, HSC-T6 cells, NIH/3T3 cells, HEK-293 cells, A549 cells, HepG2 cells, K-562 cells, PC-12 cells, LO2 cells, HT-29 cells, THP-1 cells, 4T1 cells, MCF-7 cells

IHC: human breast cancer tissue, 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.

Notable Publications

Author	Pubmed ID	Journal	Application
Jiarui Fang	36102200	Mol Carcinog	WB
Zimengwei Ye	36160420	Front Pharmacol	WB
Yaoyao Xia	31670355	Food Funct	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

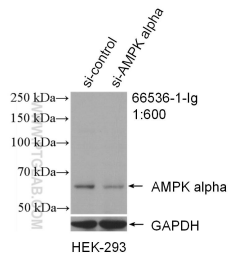
For technical support and original validation data for this product please contact:

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

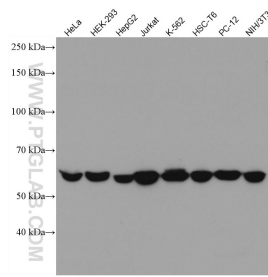
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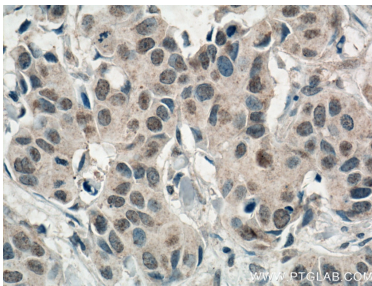
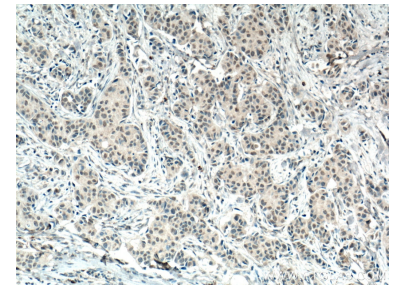
Selected Validation Data



WB result of AMPK alpha antibody (66536-1-Ig; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-AMPK alpha transfected HEK-293 cells.



Various lysates were subjected to SDS PAGE followed by western blot with 66536-1-Ig (AMPK alpha antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66536-1-Ig (AMPK alpha antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).