

For Research Use Only

AMPK Alpha 1 Monoclonal antibody



Catalog Number: 66536-1-Ig

Featured Product

35 Publications

Basic Information

Catalog Number: 66536-1-Ig	GenBank Accession Number: BC012622	Purification Method: Protein A purification
Size: 150ul , Concentration: 1500 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5562	CloneNo.: 1H8E1
Source: Mouse	Full Name: protein kinase, AMP-activated, alpha 1 catalytic subunit	Recommended Dilutions: WB 1:500-1:3000 IHC 1:50-1:500
Isotype: IgG1	Calculated MW: 63 kDa	
Immunogen Catalog Number: AG24744	Observed MW: 64 kDa	

Applications

Tested Applications:

IHC, WB, ELISA

Cited Applications:

FC, IHC, WB

Species Specificity:

Human, Rat, Mouse

Cited Species:

goat, human, mouse, pig, rat

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
Yingchun Zhao	34663844	Sci Rep	WB
Xiangming Wang	31632286	Front Physiol	WB
Zhiyuan Feng	34839540	J Sci Food Agric	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

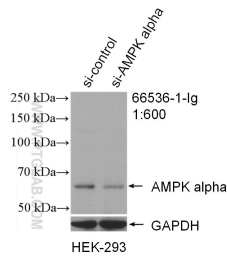
For technical support and original validation data for this product please contact:

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

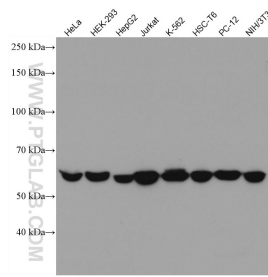
E: proteintech@ptglab.com
W: ptglab.com

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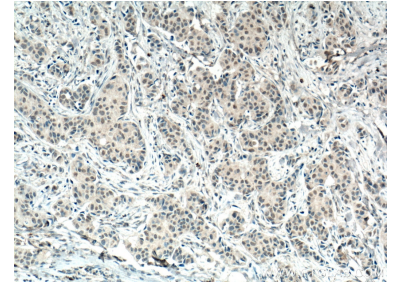
Selected Validation Data



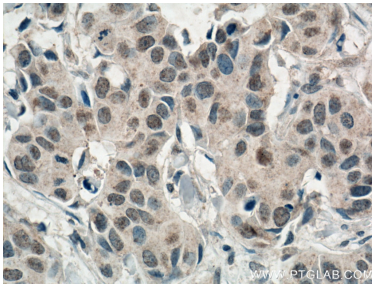
WB result of AMPK alpha antibody (66536-1-Ig; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-AMPK alpha transfected HEK-293 cells.



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 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).