

For Research Use Only

AMPK Alpha 2 Polyclonal antibody, PBS Only



Catalog Number: 18167-1-PBS

Featured Product

Basic Information

Catalog Number:

18167-1-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG12796

GenBank Accession Number:

BC069680

GeneID (NCBI):

5563

UNIPROT ID:

P54646

Full Name:

protein kinase, AMP-activated, alpha 2 catalytic subunit

Calculated MW:

552 aa, 62 kDa

Observed MW:

62 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, Indirect ELISA

Species Specificity:

human, mouse, rat

Background Information

PRKAA2 (protein kinase, AMP-activated, alpha 2 catalytic subunit), also named as AMPKA2, AMPK, PRKAA, AMPK2, belongs to the CAMK Ser/Thr protein kinase family and SNF1 subfamily. PRKAA2 is an $\alpha\beta\gamma$ heterotrimer that is activated by low cellular energy status, such as decreases in both the ATP/AMP ratio and the phosphocreatine content and it is a glycogen synthase kinase, phosphorylating Ser7 at the NH2 terminus, which decreases glycogen synthase activity (PMID:14532170). The protein can be ubiquitinated (PMID:21224036).

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS only, pH7.3

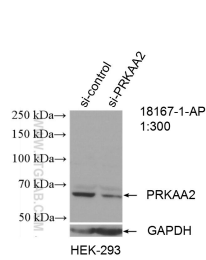
For technical support and original validation data for this product please contact:

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

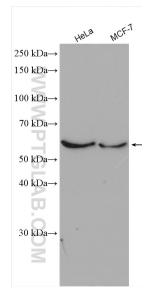
E: proteintech@ptglab.com
W: ptglab.com

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

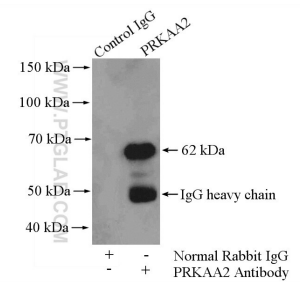
Selected Validation Data



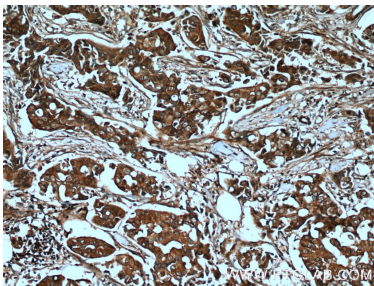
WB result of AMPK alpha 2 antibody (18167-1-AP; 1:300; incubated at room temperature for 1.5 hours) with sh-Control and sh-AMPK alpha 2 transfected HEK-293 cells. This data was developed using the same antibody clone with 18167-1-PBS in a different storage buffer formulation.



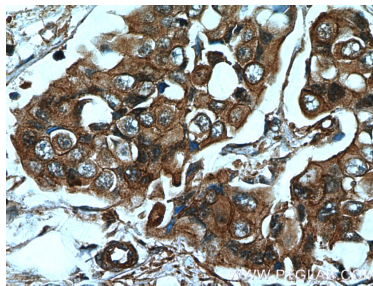
Various lysates were subjected to SDS PAGE followed by western blot with 18167-1-AP (AMPK alpha 2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 18167-1-PBS in a different storage buffer formulation.



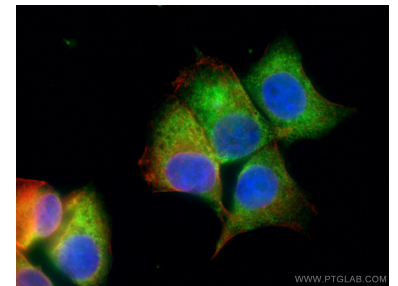
IP result of anti-AMPK Alpha 2 (IP:18167-1-AP, 4ug; Detection:18167-1-AP 1:1000) with mouse skeletal muscle tissue lysate 3600ug. This data was developed using the same antibody clone with 18167-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 18167-1-AP (AMPK alpha 2 antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 18167-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 18167-1-AP (AMPK alpha 2 antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 18167-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed MCF-7 cells using AMPK Alpha 2 antibody (18167-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 18167-1-PBS in a different storage buffer formulation.