

For Research Use Only

AMPK Gamma 1 Polyclonal antibody, PBS Only

Catalog Number: 10290-1-PBS

Featured Product



Basic Information

Catalog Number:

10290-1-PBS

Size:

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

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0302

GenBank Accession Number:

BC000358

GeneID (NCBI):

5571

UNIPROT ID:

P54619

Full Name:

protein kinase, AMP-activated,
gamma 1 non-catalytic subunit

Calculated MW:

38 kDa

Observed MW:

35-38 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

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

Species Specificity:

human

Background Information

Protein kinase, AMP-activated, gamma 1 non-catalytic subunit (PRKAG1, synonyms: AMPKG, MGC8666) is a regulatory subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of a catalytic subunit, and non-catalytic and subunits. AMPK is an important energy-sensing enzyme that monitors cellular energy status. In response to cellular metabolic stresses, AMPK is activated, and thus phosphorylates and iAMP-activated protein kinase (AMPK) is a highly conserved heterotrimeric serine/threonine kinase widely characterised as a sensor of cellular energetic stress. AMPK is a heterotrimeric complex consisting of a catalytic α -subunit and two regulatory subunits (β and γ). AMPK is an important energy-sensing enzyme that monitors cellular energy status. In response to cellular metabolic stresses, AMPK is activated, and thus phosphorylates and inactivates acetyl-CoA carboxylase (ACC) and beta-hydroxy beta-methylglutaryl-CoA reductase (HMGCR), key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. AMPK gamma 1 is one of the gamma regulatory subunits of AMPK.

Storage

Storage:

Store at -80°C .

Storage Buffer:

PBS only, pH7.3

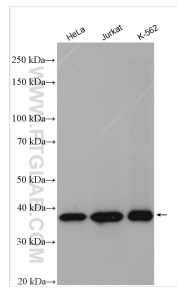
For technical support and original validation data for this product please contact:

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

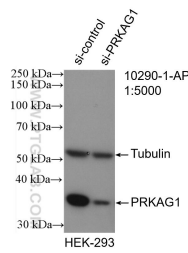
E: proteintech@ptglab.com
W: ptglab.com

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

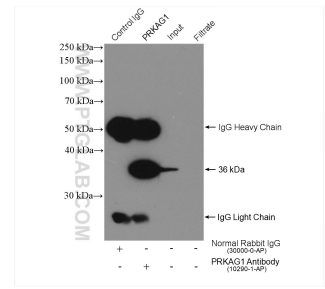
Selected Validation Data



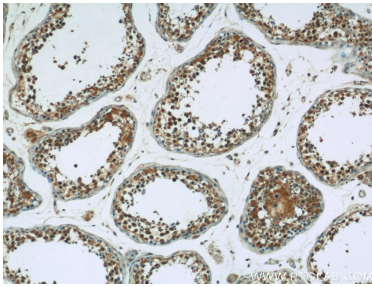
Various lysates were subjected to SDS PAGE followed by western blot with 10290-1-AP (AMPK Gamma 1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 10290-1-PBS in a different storage buffer formulation.



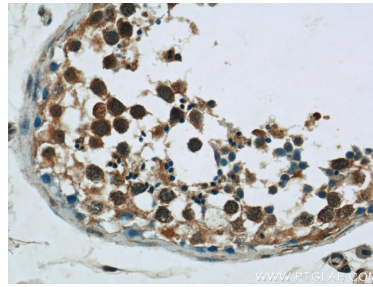
WB result of AMPK Gamma 1 antibody (10290-1-AP; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-AMPK Gamma 1 transfected HEK-293 cells. This data was developed using the same antibody clone with 10290-1-PBS in a different storage buffer formulation.



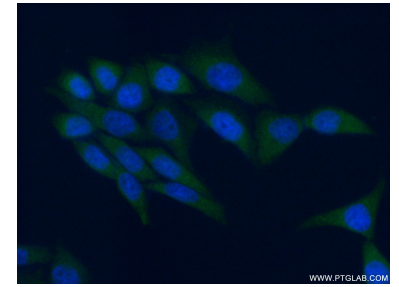
IP result of anti-AMPK Gamma 1 (IP:10290-1-AP, 4ug; Detection:10290-1-AP 1:1000) with K-562 cells lysate 3680 ug. This data was developed using the same antibody clone with 10290-1-PBS in a different storage buffer formulation.



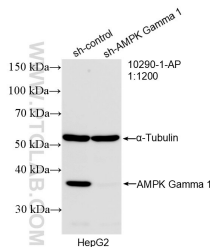
Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 10290-1-AP (AMPK gamma 1 antibody at dilution of 1:50 (under 10x lens). This data was developed using the same antibody clone with 10290-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 10290-1-AP (AMPK gamma 1 antibody at dilution of 1:50 (under 40x lens). This data was developed using the same antibody clone with 10290-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 10290-1-AP (AMPK gamma 1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 10290-1-PBS in a different storage buffer formulation.



WB result of AMPK Gamma 1 antibody (10290-1-AP; 1:1200; incubated at room temperature for 1.5 hours) with sh-Control and sh-AMPK Gamma 1 transfected HepG2 cells. This data was developed using the same antibody clone with 10290-1-PBS in a different storage buffer formulation.