For Research Use Only

AMPK Gamma 1 Polyclonal antibody, PBS Only

Catalog Number:10290-1-PBS Featured Product

proteintech®
Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
10290-1-PBS

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

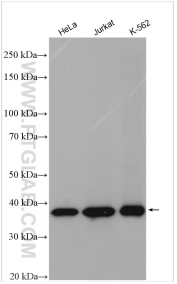
Protein kinase, AMP-activated, gamma 1 non-catalytic subunit (PRKAG1, synonyms: AMPKG, MGC8666) is a regulatory subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an catalytic subunit, and non-catalytic and subunits. AMPK is an important energy-sensing enzyme that 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

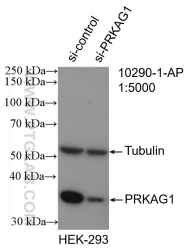
Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

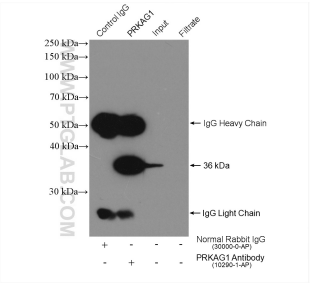
Selected Validation Data



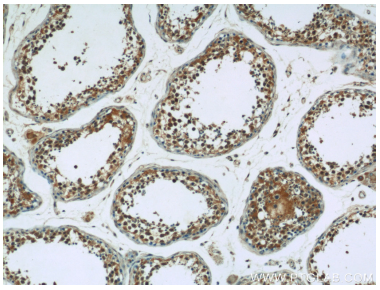
Various lysates were subjected to SDS PAGE followed by western blot with 10290-1-AP (AMPK Gamma 1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 10290-1-PBS in a different storage buffer formulation.



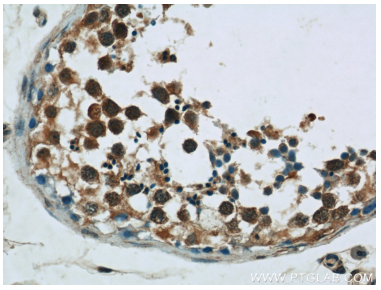
WB result of AMPK Gamma 1 antibody (10290-1-AP; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-AMPK Gamma 1 transfected HEK-293 cells. This data was developed using the same antibody clone with 10290-1-PBS in a different storage buffer formulation.



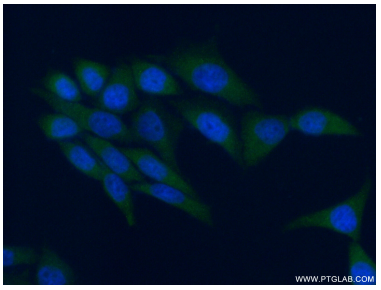
IP result of anti-AMPK Gamma 1 (IP:10290-1-AP, 4ug; Detection:10290-1-AP 1:1000) with K-562 cells lysate 3680 ug. This data was developed using the same antibody clone with 10290-1-PBS in a different storage buffer formulation.



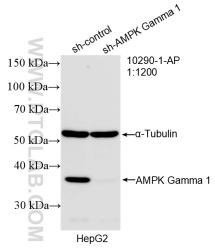
Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 10290-1-AP (AMPK gamma 1 antibody at dilution of 1:50 (under 10x lens). This data was developed using the same antibody clone with 10290-1-PBS in a different storage buffer formulation.



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.