

For Research Use Only

AMPK Gamma 2 Polyclonal antibody



Catalog Number: 12568-1-AP

2 Publications

Basic Information

Catalog Number: 12568-1-AP	GenBank Accession Number: BC020540	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 260 µg/ml by Nanodrop and 173 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 51422	Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500 IF 1:20-1:200
Source: Rabbit	Full Name: protein kinase, AMP-activated, gamma 2 non-catalytic subunit	
Isotype: IgG	Calculated MW: 569 aa, 63 kDa	
Immunogen Catalog Number: AG3214	Observed MW: 63 kDa	

Applications

Tested Applications:

IF, IHC, WB, ELISA

Cited Applications:

IF, WB

Species Specificity:

human, mouse

Cited Species:

human

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: mouse heart tissue, HEK-293 cells, HeLa cells, mouse eye tissue, PC-3 cells

IHC: human heart tissue, human ovary tumor tissue, human placenta tissue

IF: HeLa cells,

Background Information

AMP-activated protein kinase (AMPK) is a heterotrimeric protein composed of a catalytic alpha subunit, a noncatalytic beta subunit, and a noncatalytic regulatory gamma subunit. Various forms of each of these subunits exist, encoded by different genes. AMPK is an important energy-sensing enzyme that monitors cellular energy status and functions by inactivating key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. AMPK gamma2 is a member of the AMPK gamma subunit family. Mutations in this gene have been associated with Wolff-Parkinson-White syndrome, familial hypertrophic cardiomyopathy, and glycogen storage disease of the heart.

Notable Publications

Author	Pubmed ID	Journal	Application
Zhang Bi-Li BL	23778007	J Cardiol	WB, IF
Yuwen Sheng	34931827	J Med Chem	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

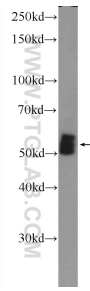
For technical support and original validation data for this product please contact:

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

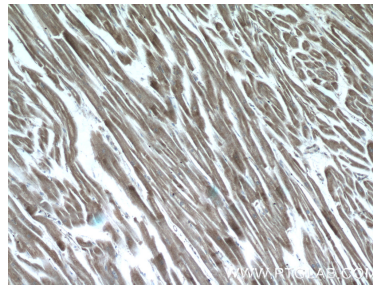
E: proteintech@ptglab.com
W: ptglab.com

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

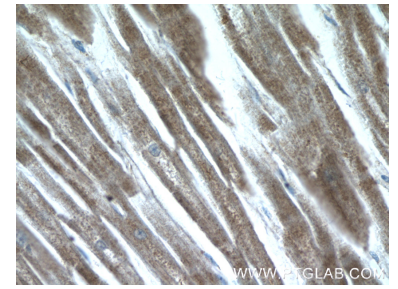
Selected Validation Data



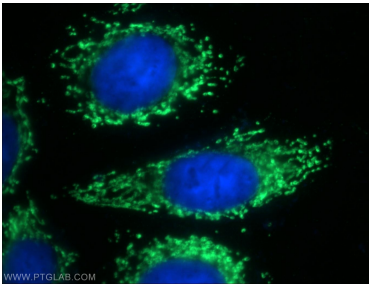
mouse heart tissue were subjected to SDS PAGE followed by western blot with 12568-1-AP (AMPK gamma2 antibody at dilution of 1:600 incubated at 4 degree celsius over night.



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 12568-1-AP (AMPK gamma2 antibody at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 12568-1-AP (AMPK gamma2 antibody at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of HeLa cells using 12568-1-AP (AMPK gamma2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).