

# Anti-AMPK gamma 1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

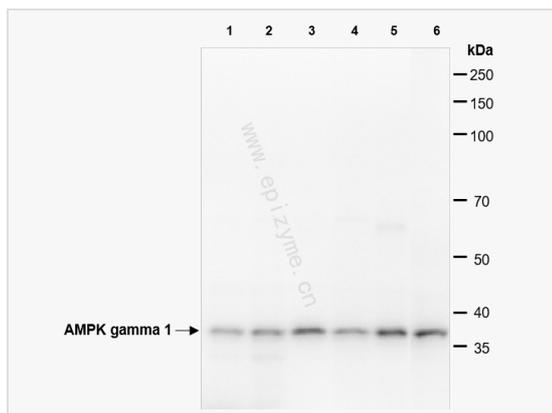
Catalog # R013477

## Product Information

Application	ELISA, WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:200; IF 1:100
Host	Rabbit
Clonality	Monoclonal
Clone No.	56L11K81
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human AMPK gamma 1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-AMPK gamma 1 Rabbit mAb [56L11K81] is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

Synonyms	AMPKG.
Calculated MW	Calculated MW: 38 kDa; Observed MW: 38 kDa
Uniprot ID	P54619
Gene ID	5571
Background	AMPK is highly conserved from yeast to plants and animals and plays a key role in the regulation of energy homeostasis. Accumulating evidence indicates that AMPK not only regulates the metabolism of fatty acids and glycogen, but also modulates protein synthesis and cell growth through EF2 and TSC2/mTOR pathways, as well as blood flow via eNOS/nNOS.



Western Blot - Anti-AMPK gamma 1 Rabbit mAb [56L11K81]

All lanes: R013477 at 1:6,000 dilution

Lane 1: U2OS (Human osteosarcoma epithelial cell) whole cell lysates

Lane 2: SW620 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 3: 293T (Human embryonic kidney cell) whole cell lysates

Lane 4: HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysates

Lane 5: Rat heart whole tissue lysates

Lane 6: Balb/c mouse brain whole tissue lysates

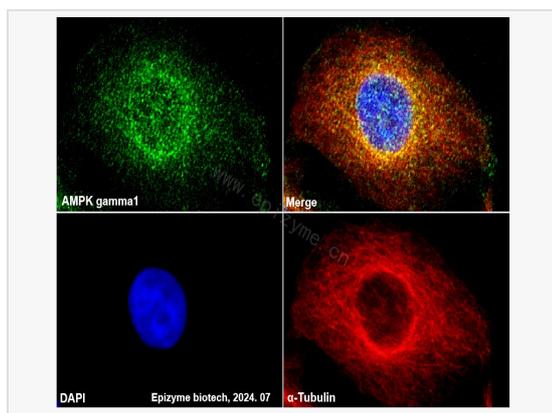
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 38 kDa

Observed band size: 38 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-AMPK gamma 1 Rabbit mAb [56L11K81]

Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R013477 at 1:100 dilution and  $\alpha$ -tubulin Mouse Monoclonal

Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).



Immunohistochemistry - Anti-AMPK gamma 1 Rabbit mAb [56L11K81]

Sample: Paraformaldehyde-fixed, paraffin embedded rat testis tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R013477 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution  
DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.