

Anti-AMPK beta 1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

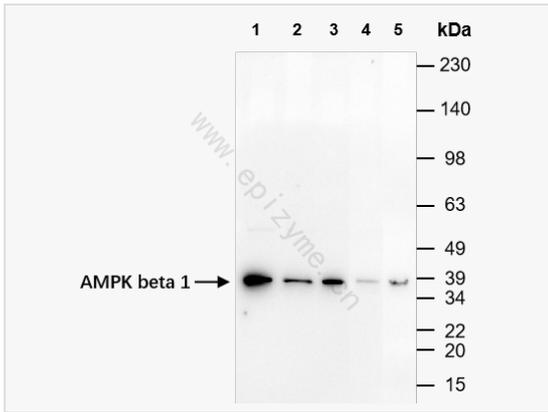
Catalog # R015102

Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	16F96B80
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human AMPK beta 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 beta 1 Rabbit mAb [16F96B80] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	1300015D22Rik, 5''-AMP-activated protein kinase subunit beta-1, 5'-AMP-activated protein kinase beta-1 subunit, AAKBI_HUMAN, AMP-activated protein kinase beta subunit, AMP-ACTIVATED PROTEIN KINASE, NONCATALYTIC, BETA-1, AMP-activated, noncatalytic, beta-1, AMPK, AMPK beta 1 chain, AMPK subunit beta-1, AMPK-BETA-1, AMPKb, AU021155, E430008F22, HAMPKb, MGC17785, PRKABI, Protein kinase AMP activated non catalytic subunit beta 1, protein kinase, AMP-activated, beta 1 non-catalytic subunit, protein kinase, AMP-activated, noncatalytic, beta-1.
Calculated MW	Calculated MW: 30 kDa; Observed MW: 38 kDa
Uniprot ID	Q9Y478
Gene ID	5564
Background	The protein encoded by this gene is a regulatory subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta and gamma 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 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. This subunit may be a positive regulator of AMPK activity. The myristoylation and phosphorylation of this subunit have been shown to affect the enzyme activity and cellular localization of AMPK. This subunit may also serve as an adaptor molecule mediating the association of the AMPK complex. [provided by RefSeq, Jul 2008]



Western Blot - Anti-AMPK beta 1 Rabbit mAb [16F96B80]

All lanes: R015102 at 1:1,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: A431 (Human epidermoid teratoma cell line) whole cell lysates

Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 4: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates

Lane 5: Rat brain whole tissue lysates

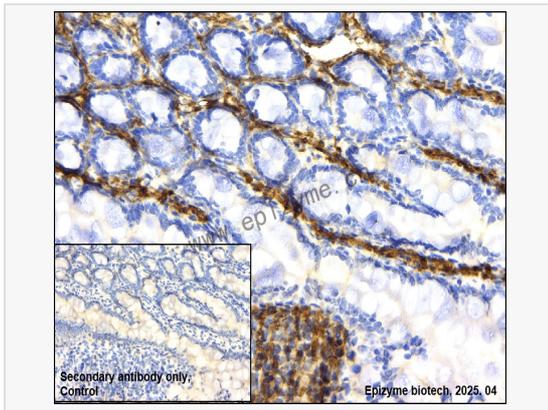
Lysates/proteins at 10 µg per lane.

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

Predicted band size: 30 kDa

Observed band size: 38 kDa

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



Immunohistochemistry - Anti-AMPK beta 1 Rabbit mAb [16F96B80]

Sample: Paraformaldehyde-fixed, paraffin embedded rat colon tissue

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

Primary antibody: R015102 at 1:200 dilution

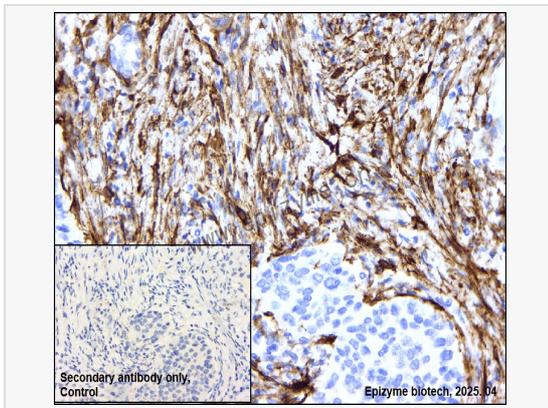
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

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.



Immunohistochemistry - Anti-AMPK beta 1 Rabbit mAb [16F96B80]

Sample: Paraformaldehyde-fixed, paraffin embedded human lung cancer tissue

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

Primary antibody: R015102 at 1:200 dilution

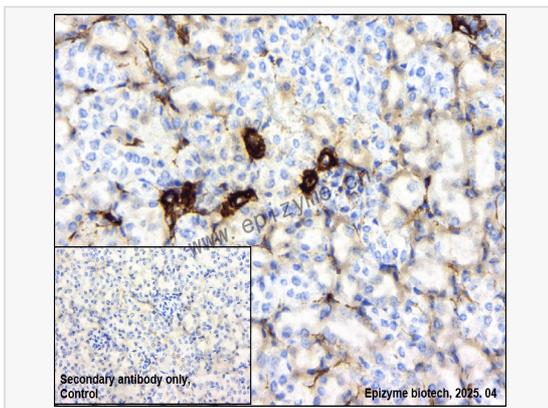
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

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.



Immunohistochemistry - Anti-AMPK beta 1 Rabbit mAb [16F96B80]

Sample: Paraformaldehyde-fixed, paraffin embedded mouse kidney tissue

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

Primary antibody: R015102 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.