Product Name: AMPK\$1 (phospho Ser182) Rabbit

Polyclonal Antibody Catalog #: APRab04229



Summary

AMPKβ1 (phospho Ser182) Rabbit Polyclonal Antibody **Production Name**

Description Rabbit Polyclonal Antibody

Rabbit Host

Application ELISA,IHC,WB, Reactivity Human, Mouse, Rat

Performance

Conjugation Unconjugated

Modification Phospho Antibody

Isotype IgG

Clonality Polyclonal **Form** Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw Storage

cycles.

Buffer Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

Purification Affinity purification

Immunogen

Gene Name PRKAB1

PRKAB1; AMPK; 5'-AMP-activated protein kinase subunit beta-1; AMPK subunit beta-1;

Alternative Names AMPKb

5564.0

Gene ID

Q9Y478. The antiserum was produced against synthesized peptide derived from human SwissProt ID

AMPK beta1 around the phosphorylation site of Ser181. AA range:147-196

Application

Dilution Ratio WB 1:500 - 1:2000 IHC 1:100 - 1:300. ELISA: 1:40000...

Molecular Weight 38kD

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

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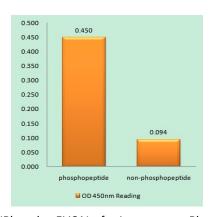
Background

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. [providedfunction:AMPK is responsible for the regulation of fatty acid synthesis by phosphorylation of acetyl-CoA carboxylase. Also regulates cholesterol synthesis via phosphorylation and inactivation of hydroxymethylglutaryl-CoA reductase and hormone-sensitive lipase. This is a regulatory subunit, may be a positive regulator of AMPK activity. It may also serve as an adaptor molecule for the catalytic alphasubunit, PTM:Phosphorylated.,similarity:Belongs to the 5'-AMP-activated protein kinase beta subunit family.,subunit:Heterotrimer of an alpha catalytic subunit, a beta and a gamma non-catalytic regulatory subunits. Interacts with FNIP1 and FNIP2.,

Research Area

AMPK

Image Data



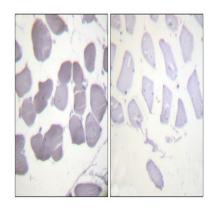
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using AMPK beta1 (Phospho-Ser181) Antibody

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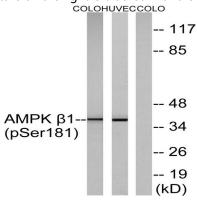
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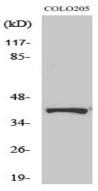


Immunohistochemistry analysis of paraffin-embedded human skeletal muscle, using AMPK beta1 (Phospho-Ser181)

Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from COLO205 cells and HUVEC cells, using AMPK beta1 (Phospho-Ser181) Antibody. The lane on the right is blocked with the phospho peptide.



Western Blot analysis of various cells using Phospho-AMPKβ1 (S182) Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA) .

Note

For research use only.