AP1195

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Phospho-AMPKβ1-S182 Rabbit pAb

Catalog No.: AP1195 2 Publications

Basic Information

Observed MW
38kDa

Calculated MW
30kDa

Category
Polyclonal Antibody

Applications
WB,IHC-P,ELISA

Cross-Reactivity
Human,Mouse,Rat

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.

Recommended Dilutions

WB	1:500 - 1:1000
IHC-P	1:50 - 1:200
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
5564

Swiss Prot
Q9Y478

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
AMPK; HAMPKb; Phospho-AMPKβ1-S182

Contact

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Product Information

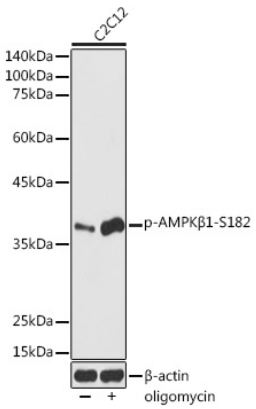
Source
Rabbit

Isotype
IgG

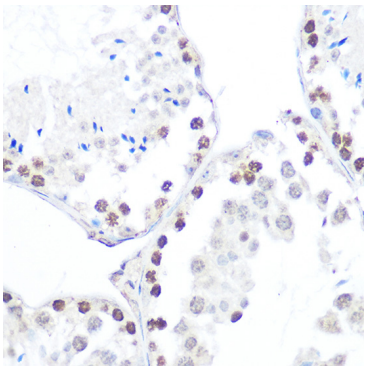
Purification
Affinity purification

Storage
Store at -20℃

Validation Data



Western blot analysis of lysates from C2C12 cells, using Phospho-AMPKβ1-S182 Rabbit pAb (AP1195) at 1:1000 dilution. C2C12 cells were treated with oligomycin (0. 5 uM) at 37℃ for 30 minutes.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.



Immunohistochemistry analysis of paraffin-embedded Mouse testis using Phospho-AMPKβ1-S182 Rabbit pAb (AP1195) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.

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