

A4042

Leader in Biomolecular Solutions for Life Science



AMPK β 1 Rabbit pAb

Catalog No.: A4042

Basic Information

Observed MW

38kDa

Calculated MW

30kDa

Category

Polyclonal Antibody

Applications

WB

Cross-Reactivity

Human,Mouse

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 - 1:2000

Immunogen Information

Gene ID

5564

Swiss Prot

Q9Y478

Immunogen

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

Synonyms

AMPK; HAMPKb; AMPK β 1

Contact

 www.abclonal.com

Product Information

Source

Rabbit

Isotype

IgG

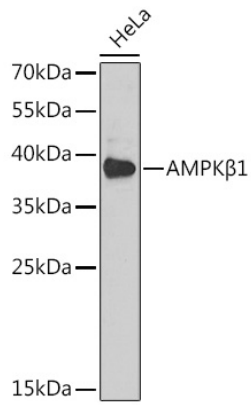
Purification

Affinity purification

Storage

Store at 4°C. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide,pH7.3.

Validation Data



Western blot analysis of lysates from HeLa cells, using AMPK β 1 Rabbit pAb (A4042).
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 μ g per lane.
Blocking buffer: 3% nonfat dry milk in TBST.