

# AMPK $\beta$ 1 Mouse mAb

Catalog No.: A0846

## Basic Information

**Observed MW**

38kDa

**Calculated MW**

30kDa

**Category**

Primary antibody

**Applications**

ELISA, WB, IHC-P, IF/ICC, IP

**Cross-Reactivity**

Human, Mouse, Rat, Monkey

## 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

<b>WB</b>	1:500 - 1:2000
<b>IHC-P</b>	1:50 - 1:200
<b>IF/ICC</b>	1:20 - 1:50
<b>IP</b>	1:50 - 1:200

## Immunogen Information

**Gene ID**

5564

**Swiss Prot**

Q9Y478

**Immunogen**Recombinant protein of human AMPK $\beta$ 1**Synonyms**AMPK; HAMPKb; AMPK $\beta$ 1

## Contact

 | [www.abclonal.com](http://www.abclonal.com)

## Product Information

**Source**

Mouse

**Isotype**

IgG

**Purification**

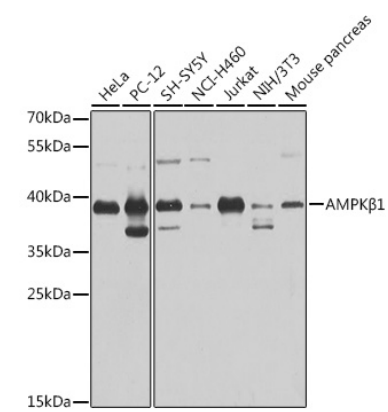
Affinity purification

**Storage**

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

# Validation Data



Western blot analysis of various lysates using AMPKβ1 Mouse mAb (A0846) at 1:1000 dilution.  
Secondary antibody: HRP Goat Anti-Mouse IgG (H+L) (A5003) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 15s.