AMPK beta1 Polyclonal Antibody

Catalog No. E-AB-64206

Note: Centrifuge before opening to ensure complete recovery of vial contents.

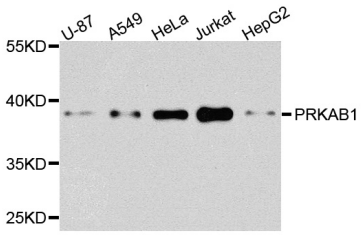
Description

Reactivity	Human
Immunogen	Recombinant protein of human PRKAB1
Host	Rabbit
Isotype	IgG
Purification	Affinity purification
Conjugation	Unconjugated
Buffer	PBS with 0.02% sodium azide and 50% glycerol pH 7.4.

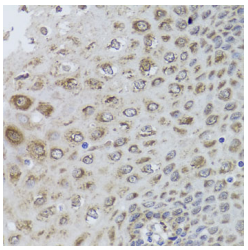
Applications — Recommended Dilution

WB 1:500 - 1:2000
IHC 1:50 - 1:200

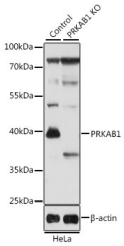
Data



Western blot analysis of extracts of various cell lines with AMPK beta1 Polyclonal Antibody
Observed Mw:38kDa
Calculated Mw:30kDa



Immunohistochemistry of paraffin-embedded human esophagus with AMPK beta1 Polyclonal Antibody



Western blot analysis of extracts from normal (control) and AMPK beta1 knockout (KO) HeLa cells, using AMPK beta1 Polyclonal Antibody at dilution of 1:1000.

Preparation & Storage

Storage	Store at -20℃. Avoid freeze / thaw cycles.

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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.

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