

Product Datasheet

Phospho-AMPK alpha 2 (S345) Antibody

Catalog No: CY5895

Reactivity: Human Mouse Rat

Isotype: Rabbit IgG

Applications: WB



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Information

UniProt ID: P54646

All Names: 5'-AMP-activated protein kinase catalytic subunit alpha-2; ACACA kinase; Acetyl-CoA carboxylase kinase; AMPK subunit alpha-2; AMPK2; AMPKalpha2; HMGCR kinase; Hydroxymethylglutaryl-CoA reductase kinase; PRKAA; PRKAA2;

Form: Liquid

Storage instructions: Store at +4° C short term. Store at -20° C long term. Avoid freeze / thaw cycle.

Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Purity: Affinity-chromatography

Immunogen: A synthesized peptide

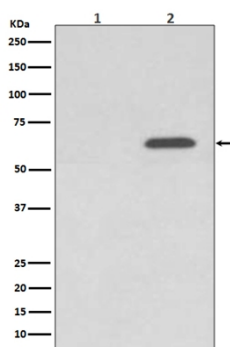
Molecular Wt.: 64 kDa

Application

WB 1:1000~1:2000

Background

AMP-activated protein kinase (AMPK) is highly conserved from yeast to plants and animals and plays a key role in the regulation of energy homeostasis. AMPK is a heterotrimeric complex composed of a catalytic α subunit and regulatory β and γ subunits, each of which is encoded by two or three distinct genes ($\alpha 1$, 2; $\beta 1$, 2; $\gamma 1$, 2, 3). The kinase is activated by an elevated AMP/ATP ratio due to cellular and environmental stress, such as heat shock, hypoxia, and ischemia. AMPK α is also phosphorylated at Thr183 and Ser485 (for $\alpha 1$); Thr172 and Ser491 (for $\alpha 2$).



Western blot analysis of Phospho-AMPK alpha 2 (S345) expression in (1) 293T cell treated with Lambda Phosphatase lysate; (2) 293T cell lysate.

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