

Anti-Phospho-AMPK alpha 1 (S485) Antibody [PSH18-01] HA723966



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IF-Cell
Molecular Wt:	Predicted band size: 62 kDa
Clone number:	PSH18-01

Description: AMPK (5'-AMP-activated protein kinase) is a heterotrimeric complex comprising a catalytic α subunit and regulatory β and γ subunits. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming bio-synthetic pathways. AMPK is activated by high AMP and low ATP through a mechanism involving allosteric regulation, promotion of phosphorylation by an upstream protein kinase known as AMPK kinase, and inhibition of dephosphorylation. Activated AMPK can phosphorylate and regulate in vivo hydroxy-methylglutaryl-CoA reductase and acetyl-CoA carboxylase, which are key regulatory enzymes of sterol synthesis and fatty acid synthesis, respectively. AMPK α 1 (5'-AMP-activated protein kinase catalytic subunit alpha-1), also known as PRKAA1, is a 559 amino acid protein that belongs to the CAMK Ser/Thr protein kinase family and protein kinase superfamily. Highly phosphorylated, AMPK α 1 exists as two alternatively spliced isoforms and is encoded by a gene that maps to human chromosome 5p13.1.

Immunogen: Synthetic phospho-peptide corresponding to residues surrounding Ser485 of Human AMPK alpha 1.

Subcellular location: Nucleus, Cytoplasm.

Database links: SwissProt: Q13131 Human | Q5EG47 Mouse | P54645 Rat

Recommended Dilutions:

WB	1:2,000-1:10,000
IF-Cell	1:200-1:1,000

Storage Buffer: PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA.

Storage Instruction: -15°C to -25°C/1 year(Do not lower than -25°C)

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

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Images

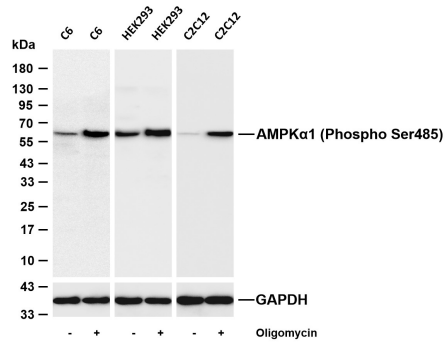


Fig1: Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Phospho-AMPK alpha 1 (S485) (HA723966) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody.

Lane 1: C6

Lane 2: C6 was treated with Oligomycin(0.5 μ M) for 30 minutes

Lane 3: HEK293

Lane 4: HEK293 was treated with Oligomycin(0.5 μ M) for 30 minutes

Lane 5: C2C12

Lane 6: C2C12 was treated with Oligomycin(0.5 μ M) for 30 minutes

Predicted band size: 62kDa

Observed band size: 62kDa

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Chang TJ et al. Glucagon-like peptide-1 prevents methylglyoxal-induced apoptosis of beta cells through improving mitochondrial function and suppressing prolonged AMPK activation. *Sci Rep* 6:23403 (2016).
2. Wang YG & Yang TL Liraglutide reduces fatty degeneration in hepatic cells via the AMPK/SREBP1 pathway. *Exp Ther Med* 10:1777-1783 (2015).

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