BioVision 12/16 For research use only

Phospho-AMPKα1 (Ser496) Antibody

CATALOG NO: A1247-100 100 μl

ALTERNATE NAMES: PRKAA1; AMPK1; 5'-AMP-activated protein kinase catalytic

subunit alpha-1; AMPK subunit alpha-1; Acetyl-CoA carboxylase kinase; ACACA kinase; Hydroxymethylglutaryl-CoA reductase

kinase; HMGCR kinase; Tau-protein kinase PRKAA1

AMOUNT: 100 μl (1 mg/ml)

IMMUNOGEN: Synthesized peptide derived from human AMPKα1 around the

phosphorylation site of S496 (420-500aa)

MOL. WEIGHT 62 kDa

HOST/ISOTYPE: Rabbit IgG

SPECIES REACTIVITY: Human, mouse, rat

SPECIFICITY: Phospho-AMPKα1 (Ser496) Polyclonal Antibody detects

endogenous levels of AMPKa1 protein only when phosphorylated

at Ser496.

PURIFICATION: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen

FORM: Liquid

FORMULATION: Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02%

sodium azide

STORAGE CONDITIONS: Store at -20°C. Avoid repeated freeze/thaw cycles.

DESCRIPTION: Catalytic subunit of AMP-activated protein kinase (AMPK), an

energy sensor protein kinase that plays a key role in regulating cellular energy metabolism. In response to reduction of intracellular ATP levels, AMPK activates energy-producing pathways and inhibits energy-consuming processes: inhibits protein, carbohydrate and lipid biosynthesis, as well as cell growth and proliferation. Acts as a key regulator of cell growth and proliferation by phosphorylating TSC2, RPTOR and ATG1/ULK1: in response to nutrient limitation, negatively regulates the mTORC1 complex by phosphorylating RPTOR component of the mTORC1 complex and

by phosphorylating and activating TSC2.

APPLICATION: WB 1:500-1:2000; IHC 1:100-1:300; ELISA 1:20000

Note: This information is only intended as a guide. The

optimal dilutions must be determined by the user.



Western Blot analysis of HeLa cells using Phospho-AMPKalpha1 (S496) Polyclonal Antibody.

RELATED PRODUCTS:

- AMPKα Antibody (Cat. No. 3113-100)
- AMPKα1 Antibody (Cat. No. 3110-100)
- AMPKβ Antibody (Cat. No. 3108-100)
- AMPKy Antibody (Cat. No. 3109-100)
- AMPK1 Antibody (Cat. No. 3112-100)
- AMPK2 Antibody (Cat. No. 3118-100)
- AMPKα1 Antibody (Cat. No. 3951-100)
- AMPKα2 Antibody (Cat. No. 3117-50)
- AMPKα2 Antibody (Cat. No. 3169-50)

FOR RESEARCH USE ONLY! Not to be used on humans.

