

AMPK α 1 (Phospho-S496) polyclonal antibody

Catalog: BS94027

Host: Rabbit

Reactivity: Human

Background:

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.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

64 kDa

Swiss-Prot:

Q13131(Human)

Purification&Purity:

ProA affinity purified

Applications:

WB:1:1,000-1:5,000

ICC:1:50-1:200

Storage&Stability:

Store at +4 °C after thawing. Aliquot store at -20 °C or -80 °C. Avoid repeated freeze / thaw cycles.

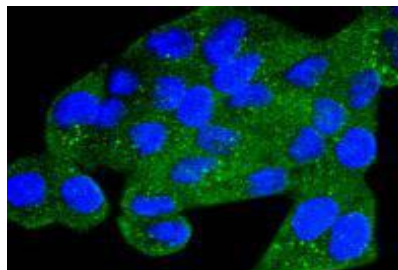
Specificity:

AMPK α 1 (Phospho-S496) polyclonal antibody detects endogenous levels of AMPK α 1 protein only when phosphorylated at S496.

DATA:



Western blot analysis of Phospho-AMPK alpha 1(S496) on 293T cells lysates using anti-Phospho-AMPK alpha 1(S496) antibody at 1/1,000 dilution.



ICC staining Phospho-AMPK alpha 1(S496) in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Note:

For research use only, not for use in diagnostic procedure.

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