

产品货号: APRab04226



产品概述 (Summary)

产品名称 (Production Name) AMPKα1 (phospho Ser496) Rabbit Polyclonal Antibody

描述 (Description) Rabbit polyclonal Antibody

宿主 (Host) Rabbit

应用 (Application) WB,IHC,ICC/IF,ELISA

种属反应性 (Reactivity) Human, Mouse, Rat, Other, Fish

产品性能 (Performance)

Unconjugated 偶联物 (Conjugation) 修饰 (Modification) Phosphorylated

同种型 (Isotype) IgG

克隆 (Clonality) Polyclonal 形式 (Form) Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid 存放说明 (Storage)

freeze/thaw cycles.

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% 储存溶液 (Buffer)

New type preservative N.

纯化方式 (Purification) Affinity purification

免疫原信息 (Immunogen)

别名 (Alternative Names)

基因名 (Gene Name) PRKAA1

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

基因 ID (Gene ID) 5562.0

Q13131.The antiserum was produced against synthesized peptide derived

蛋白 ID (SwissProt ID) from human AMPK1 around the phosphorylation site of Ser496. AA

range:451-500

产品应用(Application)

E-mail: order@enkilife.cn (销售) tech@enkilife.cn (技支持) Web: https://www.enkilife.cn Tel: 027-87002838

Antibody

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稀释比 (Dilution Ratio) WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000

蛋白分子量 (Molecular Weight) 62kDa

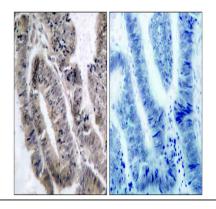
研究背景 (Background)

The protein encoded by this gene belongs to the ser/thr protein kinase family. It is the catalytic subunit of the 5'prime-AMP-activated protein kinase (AMPK). AMPK is a cellular energy sensor conserved in all eukaryotic cells. The kinase activity of AMPK is activated by the stimuli that increase the cellular AMP/ATP ratio. AMPK regulates the activities of a number of key metabolic enzymes through phosphorylation. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008], catalytic activity: ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,enzyme regulation:Binding of AMP results in allosteric activation, inducing phosphorylation on Thr-174 by STK11 in complex with STE20-related adapter-alpha (STRAD alpha) pseudo kinase and CAB39. Also activated by phosphorylation by CAMKK2 triggered by a rise in intracellular calcium ions, without detectable changes in the AMP/ATP ratio, function: Responsible for the regulation of fatty acid synthesis by phosphorylation of acetyl-CoA carboxylase. It also regulates cholesterol synthesis via phosphorylation and inactivation of hormone-sensitive lipase and hydroxymethylglutaryl-CoA reductase. Appears to act as a metabolic stress-sensing protein kinase switching off biosynthetic pathways when cellular ATP levels are depleted and when 5'-AMP rises in response to fuel limitation and/or hypoxia. This is a catalytic subunit., sequence caution: Translation N-terminally shortened., similarity: Belongs to the protein kinase superfamily, similarity:Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. SNF1 subfamily, similarity: Contains 1 protein kinase domain, subunit: Heterotrimer of an alpha catalytic subunit, a beta and a gamma non-catalytic subunits. Interacts with FNIP1 and FNIP2.,

研究领域(Research Area)

Insulin Receptor; mTOR; AMPK

图片 (Image Data)



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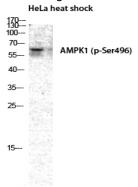




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Immunohistochemistry analysis of paraffin-embedded human colon carcinoma, using AMPK1 (Phospho-Ser485) Antibody. The picture on the right is blocked with the phospho peptide.



Western Blot analysis of HELA cells using Phospho-AMPKα1 (S496) Polyclonal Antibody diluted at 1: 2000

注意事项 (Note)

For research use only.

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