产品名称: LKB1 Rabbit Polyclonal Antibody

产品货号: APRab03396



产品概述 (Summary)

产品名称 (Production Name) LKB1 Rabbit Polyclonal Antibody

描述 (Description) Rabbit polyclonal Antibody

宿主 (Host) Rabbit 应用 (Application) WB,ELISA

种属反应性 (Reactivity) Human, Mouse

产品性能 (Performance)

偶联物 (Conjugation)Unconjugated修饰 (Modification)Unmodified

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)

sodium azide, pH 7.3.

纯化方式 (Purification) Affinity Chromatography

免疫原信息 (Immunogen)

基因名 (Gene Name) STK11

STK11; LKB1; PJS; Serine/threonine-protein kinase STK11; Liver kinase B1; 别名 (Alternative Names)

LKB1; hLKB1; Renal carcinoma antigen NY-REN-19

基因 ID (Gene ID) 6794 **蛋白 ID (SwissProt ID)** Q15831.

产品应用(Application)

稀释比 (Dilution Ratio) WB 1:500-1:1000,ELISA 1:5000-1:20000

蛋白分子量 (Molecular Weight) Calculated MW: 49 kDa; Observed MW: 52 kDa

研究背景 (Background)

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



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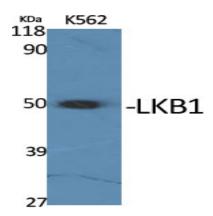


Tumor suppressor serine/threonine-protein kinase that controls the activity of AMP-activated protein kinase (AMPK) family members, thereby playing a role in various processes such as cell metabolism, cell polarity, apoptosis and DNA damage response. Acts by phosphorylating the T-loop of AMPK family proteins, thus promoting their activity: phosphorylates PRKAA1, PRKAA2, BRSK1, BRSK2, MARK1, MARK2, MARK3, MARK4, NUAK1, NUAK2, SIK1, SIK2, SIK3 and SNRK but not MELK. Also phosphorylates non-AMPK family proteins such as STRADA, PTEN and possibly p53/TP53. Acts as a key upstream regulator of AMPK by mediating phosphorylation and activation of AMPK catalytic subunits PRKAA1 and PRKAA2 and thereby regulates processes including: inhibition of signaling pathways that promote cell growth and proliferation when energy levels are low, glucose homeostasis in liver, activation of autophagy when cells undergo nutrient deprivation, and B-cell differentiation in the germinal center in response to DNA damage. Also acts as a regulator of cellular polarity by remodeling the actin cytoskeleton. Required for cortical neuron polarization by mediating phosphorylation and activation of BRSK1 and BRSK2, leading to axon initiation and specification. Involved in DNA damage response: interacts with p53/TP53 and recruited to the CDKN1A/WAF1 promoter to participate in transcription activation. Able to phosphorylate p53/TP53; the relevance of such result in vivo is however unclear and phosphorylation may be indirect and mediated by downstream STK11/LKB1 kinase NUAK1. Also acts as a mediator of p53/TP53-dependent apoptosis via interaction with p53/TP53: translocates to the mitochondrion during apoptosis and regulates p53/TP53-dependent apoptosis pathways. In vein endothelial cells, inhibits PI3K/Akt signaling activity and thus induces apoptosis in response to the oxidant peroxynitrite (in vitro). Regulates UV radiation-induced DNA damage response mediated by CDKN1A. In association with NUAK1, phosphorylates CDKN1A in response to UV radiation and contributes to its degradation which is necessary for optimal DNA repair (PubMed:25329316).

研究领域 (Research Area)

Cell Biology

图片 (Image Data)



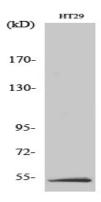
Western blot analysis of LKB1 in various lysates using LKB1 antibody.

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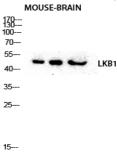
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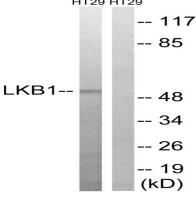




Western blot analysis of LKB1 in HT-29 lysates using LKB1 antibody.



Western blot analysis of LKB1 in KB, 3T3, Hela lysates using LKB1 antibody.



Western blot analysis of LKB1 in HT-29 lysates using LKB1 antibody. The lane on the right is blocked with the synthesized peptide.

注意事项 (Note)

For research use only.