

PERK RABBIT PAB

货号: N225379

产品全名: PERK 兔多抗

基因符号 EIF2AK3; PEK; PERK; Eukaryotic translation initiation factor 2-
alpha kinase 3; PRKR-like endoplasmic reticulum kinase; Pancreatic eIF2-
alpha kinase; HsPEK

UNIPROT ID: Q9NZJ5

背景: Metabolic-stress sensing protein kinase that phosphorylates the alpha subunit of eukaryotic translation initiation factor 2 (eIF-2-alpha/EIF2S1) on 'Ser-52' during the unfolded protein response (UPR) and in response to low amino acid availability. Converts phosphorylated eIF-2-alpha/EIF2S1 either in a global protein synthesis inhibitor, leading to a reduced overall utilization of amino acids, or to a translation initiation activator of specific mRNAs, such as the transcriptional activator ATF4, and hence allowing ATF4-mediated reprogramming of amino acid biosynthetic gene expression to alleviate nutrient depletion. Serves as a critical effector of unfolded protein response (UPR)-induced G1 growth arrest due to the loss of cyclin-D1 (CCND1). Involved in control of mitochondrial morphology and function.

抗原: The antiserum was produced against synthesized peptide derived from human EIF2AK3. AA range:947-996

经过测试的应用: ICC/IF, WB, IHC-F, IHC-P, ELISA

推荐稀释比: WB: 1/500-1/1000 IHC: 1/50-1/100 IF: 1/50-1/200 ELISA: 1/10000

种属反应性: Rabbit

克隆性: Rabbit Polyclonal

分子量: Calculated MW: 125 kDa; Observed MW: 125 kDa

亚型: IgG

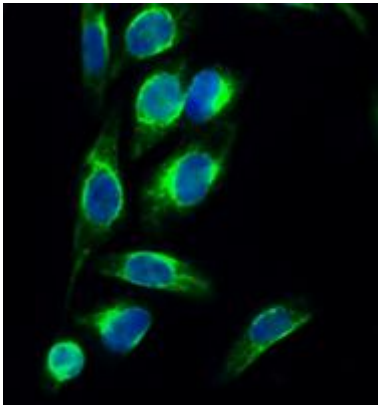
纯化: Affinity Purified

种属反应性: Human, Mouse and Rat

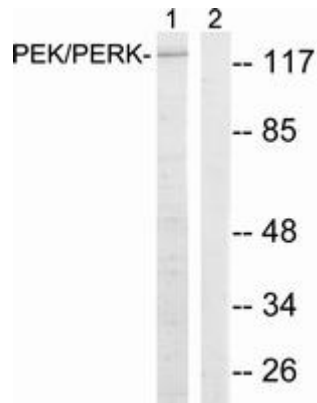
成分: PBS (without Mg²⁺ and Ca²⁺), pH 7.3 containing 50% glycerol, 0.5% BSA and 0.02% sodium azide

研究领域: Epigenetics and Nuclear Signaling

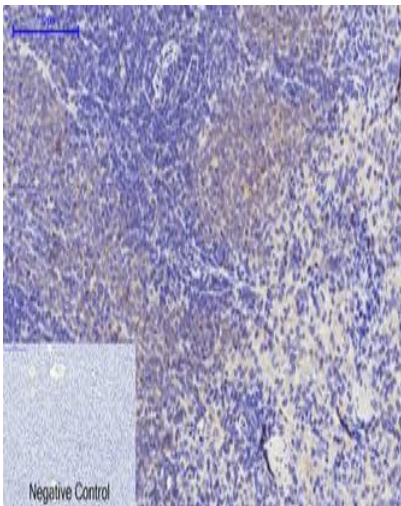
储存和运输: Store at -20°C. Avoid repeated freezing and thawing



Immunofluorescence analysis of PERK in HeLa using PERK antibody (green)



Western blot analysis of PERK in MCF-7 lysates using PERK antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded mouse lung tissue using PERK antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.