

**PERK polyclonal antibody**

Catalog: BZ16373

Host: Rabbit

Reactivity: Human, Mouse, Rat

**BackGround:**

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.

**Product:**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.

**Molecular Weight:**

Calculated MW: 125 kDa; Observed MW: 125 kDa

**Swiss-Prot:**

Q9NZJ5

**Purification&Purity:**

Affinity Purified

**Applications:**

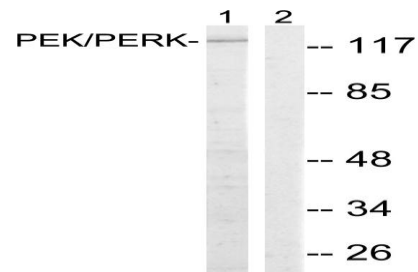
WB: 1/500-1/1000 IHC: 1/50-1/100 IF: 1/50-1/200  
ELISA: 1/10000

**Storage&Stability:**

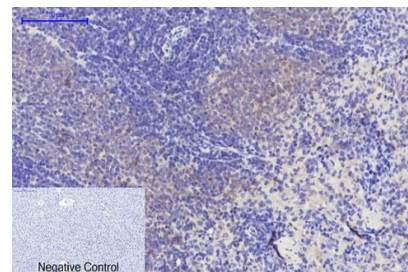
Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

**Isotype:**

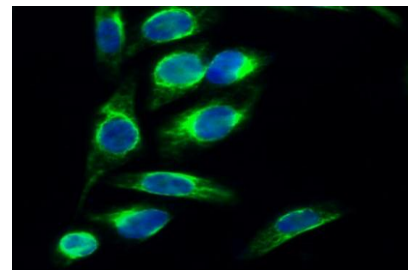
IgG

**DATA:**

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



Immunofluorescence analysis of PERK in Hela using PERK antibody



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.

**Note:**

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

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