

Anti-PERK Antibody

ER64553



Product Type: Rabbit polyclonal IgG, primary antibodies
Species reactivity: Human, Mouse, Rat
Applications: IF-Cell, WB, IHC-P, IF-Tissue
Molecular Wt: 125 kDa

Description: 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.

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

Positive control: MCF-7 cell, human colon carcinoma, rat-spleen.

Subcellular location: Endoplasmic reticulum membrane.

Database links: SwissProt: Q9NZJ5 Human

Recommended Dilutions:

WB	1:500-1:2,000
IF-Cell	1:50-1:200
IHC-P	1:100-1:300
IF-Tissue	1:50-1:200

Storage Buffer: Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

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

Purity: Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co.,Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

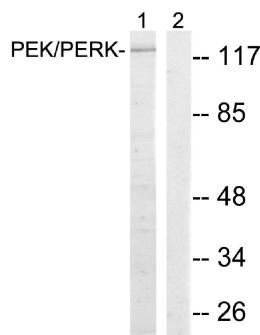


Fig1: Western blot analysis of lysates from MCF-7 cells, using PEK/PERK Antibody. The lane on the right is blocked with the synthesized peptide.

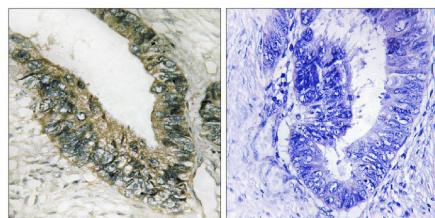


Fig2: Immunohistochemistry analysis of paraffin-embedded human colon carcinoma, using PEK/PERK Antibody. The picture on the right is blocked with the synthesized peptide.

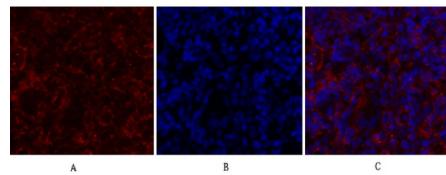


Fig3: Immunofluorescence analysis of rat-spleen tissue. 1,PERK Polyclonal Antibody(red) was diluted at 1:200(4℃,overnight). 2,Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

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