Product Name: Phospho-PERK (Thr982) Rabbit

Polyclonal Antibody Catalog #: APRab03837



Summary

Production Name Phospho-PERK (Thr982) Rabbit Polyclonal Antibody

Description Primary antibody

Host Rabbit

Application WB,IHC-F,IHC-P,ICC/IF,ELISA

Reactivity Human, Mouse, Rat

Performance

ConjugationUnconjugatedModificationPhosphorylated

Isotype IgG

Clonality Polyclonal Antibody

Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw $\bf Storage$

cycles.

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

Purification Affinity Purified

Immunogen

Alternative Names

Gene Name EIF2AK3

EIF2AK3; PEK; PERK; Eukaryotic translation initiation factor 2-alpha kinase 3; PRKR-like

endoplasmic reticulum kinase; Pancreatic eIF2-alpha kinase; HsPEK

 Gene ID
 9451

 SwissProt ID
 Q9NZJ5

Application

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

Molecular Weight Calculated MW: 125 kDa; Observed MW: 130 kDa

 Product Name: Phospho-PERK (Thr982) Rabbit

Polyclonal Antibody Catalog #: APRab03837



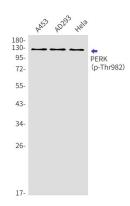
Background

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.

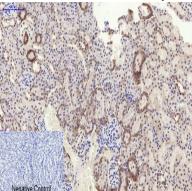
Research Area

Epigenetics and Nuclear Signaling

Image Data



Western blot analysis of Phospho-PERK (Thr982) in A453, AD293, Hela lysates using Phospho-PERK (Thr982) antibody.



Immunohistochemistry analysis of paraffin-embedded mouse kidney tissue using Phospho-PERK (Thr982) antibody Highpressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

Product Name: Phospho-PERK (Thr982) Rabbit

Polyclonal Antibody Catalog #: APRab03837





Immunohistochemistry analysis of paraffin-embedded rat lung tissue using Phospho-PERK (Thr982) antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

Note

For research use only.

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838