

## **Product Name: PERK Rabbit Monoclonal antibody**

Catalog #: AMRe02423

For research use only.

### **Summary**

**Description** Recombinant rabbit monoclonal antibody

Host Rabbit
Application WB

Reactivity Human,Mouse,Rat
Conjugation Unconjugated
Modification Unmodified

**Isotype** IgG

**Clonality** Monoclonal Antibody

Form Liquid

Concentration 0.18mg/ml. The concentration of this product may be batch-dependent.

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

**Shipping** Ice bags

50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% Buffer

protective protein

**Purification** Affinity Purified

## **Application**

**Dilution Ratio** WB 1:500-1:1000

Molecular Weight Calculated MW: 125 kDa; Observed MW: 140 kDa

# **Antigen Information**

Gene Name EIF2AK3

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

Alternative Names endoplasmic reticulum kinase; Pancreatic eIF2-alpha kinase; HsPEK

**Gene ID** 9451

SwissProt ID Q9NZJ5

**Immunogen** Recombinant protein of human PERK

## **Background**

Metabolic-stress sensing protein kinase that phosphorylates the alpha subunit of eukaryotic translation initiation factor 2 (eIF-

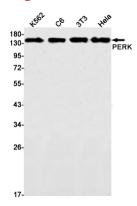


2-alpha/EIF2S1) on 'Ser-52' during the unfolded protein response (UPR) and in response to low amino acid availability. Converts phosphorylated eIF-2-alpha/EIF2S1 either in a global protein synthesis inhibitor, leading to a reduced overall utilization of amino acids, or to a translation initiation activator 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 PERK in K562, C6, 3T3, Hela lysates using PERK antibody.

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