### Catalog Number
- **GTX81222**

### Package
- 400 μl

### Product Name
- PERK antibody, N-term

### Full Name
- eukaryotic translation initiation factor 2-alpha kinase 3

### Synonyms
- Pancreatic eIF2 alpha kinase, Pancreatic eIF2alpha kinase

### Product Description
- Rabbit polyclonal to PERK (N-term Q163)

### Background
- The protein encoded by this gene phosphorylates the alpha subunit of eukaryotic translation-initiation factor 2 (EIF2), leading to its inactivation, and thus to a rapid reduction of translational initiation and repression of global protein synthesis. It is a type I membrane protein located in the endoplasmic reticulum (ER), where it is induced by ER stress caused by malfolded proteins. Mutations in this gene are associated with Wolcott-Rallison syndrome. [provided by RefSeq]

### Host
- Rabbit

### Clonality
- Polyclonal

### Isotype
- IgG

### Target
- PERK

### Immunogen
- KLH conjugated synthetic peptide between 154~184 amino acids from the N-term region of human PERK.

### Antigen Species
- Human

### Species Reactivity
- Human

### Applications
- IHC-P, WB

### Application Note
- **Recommended Starting Dilutions:**
  - ELISA: Use at 1:1,000
  - WB: Use at 1:50-100
  - IHC: Use at 1:50-100
  - Optimal dilutions should be determined experimentally by the researcher.

### Predicted Target Size
- 125.146 kDa

### Form Supplied
- Liquid

### Purification
- Prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

### Concentration
- 0.25 mg/ml (Please refer to the vial label for the specific concentration)

### Storage Buffer
- PBS with 0.09% (W/V) sodium azide

### Storage Instruction
- Store at 2-8°C for up to 6 months. For long term storage, aliquot and store at -20 °C. Avoid repeated freeze/thaw cycles.

### Notes
- For In vitro laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

### Research Area
- **Cancer** > **Apoptosis** > **Virus-infected cell**
  - **Cell Biology** > **Apoptosis** > **Virus-infected cell**
  - **Cell Biology** > **ER stress**
Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with PERK antibody (N-term Q163) (GTX81222), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Western blot analysis of PERK Antibody (N-term Q163) (GTX81222) in 293 cell line lysates (35μg/lane). PERK (arrow) was detected using the purified Pab.