

Datasheet for ABIN7216498
anti-PERK antibody (AA 30-110)



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1 Image

Overview

Quantity:	100 µL
Target:	PERK (EIF2AK3)
Binding Specificity:	AA 30-110
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PERK antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	PERK Polyclonal Antibody
Immunogen:	Synthesized peptide derived from the N-terminal region of human PERK at AA range: 30-110
Isotype:	IgG
Specificity:	PERK Polyclonal Antibody detects endogenous levels of PERK protein.
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen

Target Details

Target:	PERK (EIF2AK3)
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Target Details

Alternative Name: PERK ([EIF2AK3 Products](#))

Background: Rabbit Anti-PERK Polyclonal Antibody, EIF2AK3, PEK, PERK, Eukaryotic translation initiation factor 2-alpha kinase 3, PRKR-like endoplasmic reticulum kinase, Pancreatic eIF2-alpha kinase, HsPEK, Eukaryotic translation initiation factor 2 alpha kinase 3 encoded by EIF2AK3 phosphorylates the alpha subunit of eukaryotic translation-initiation factor 2, leading to its inactivation, and thus to a rapid reduction of translational initiation and repression of global protein synthesis. Eukaryotic translation initiation factor 2 alpha kinase 3 is thought to modulate mitochondrial function. It is a type I membrane protein located in the endoplasmic reticulum (ER), where it is induced by ER stress caused by malformed proteins. Mutations in EIF2AK3 are associated with Wolcott-Rallison syndrome. Eukaryotic translation initiation factor 2-alpha kinase 3

Molecular Weight: observed band 125kDa

Gene ID: 9451

UniProt: [Q9NZJ5](#)

Pathways: [Hormone Transport](#), [ER-Nucleus Signaling](#), [Positive Regulation of Endopeptidase Activity](#), [Hepatitis C](#), [Unfolded Protein Response](#)

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: WB (1:500-1:2000), IHC-P (1:100-1:300), IF (1:200-1:1000), ELISA (1:40000). Not yet tested in other applications.

Comment: Primary Antibody

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: PBS containing 50 % Glycerol, 0.5 % BSA and 0.02 % Sodium Azide.

Preservative: Sodium azide

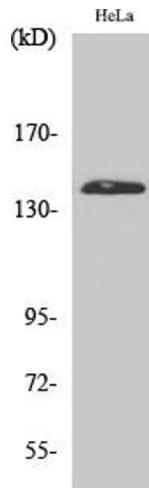
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage: -20 °C

Storage Comment: Stable for one year at -20°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing.

Images



Western Blotting

Image 1. Western Blot analysis of various cells using PERK Polyclonal Antibody diluted at 1:2000.