

Datasheet for ABIN7213340
anti-PERK antibody (pThr981)

5 Images

[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	PERK (EIF2AK3)
Binding Specificity:	pThr981
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PERK antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	PERK (phospho Thr981) Polyclonal Antibody
Immunogen:	Synthesized peptide derived from human PERK Phospho-Thr981
Isotype:	IgG
Specificity:	Phospho-PERK (T981) Polyclonal Antibody detects endogenous levels of PERK protein only when phosphorylated at T981.
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen

Target Details

Target:	PERK (EIF2AK3)
---------	----------------

Target Details

Alternative Name:	PERK (EIF2AK3 Products)
Background:	Rabbit Anti-PERK (phospho Thr981) 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 130kDa
Gene ID:	9451
UniProt:	Q9NZJ5
Pathways:	Hormone Transport , ER-Nucleus Signaling , Positive Regulation of Endopeptidase Activity , Hepatitis C

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: IHC-P (1:100-1:300), ELISA (1:40000). Not yet tested in other applications.
Comment:	Primary Antibody
Restrictions:	For Research Use only

Handling

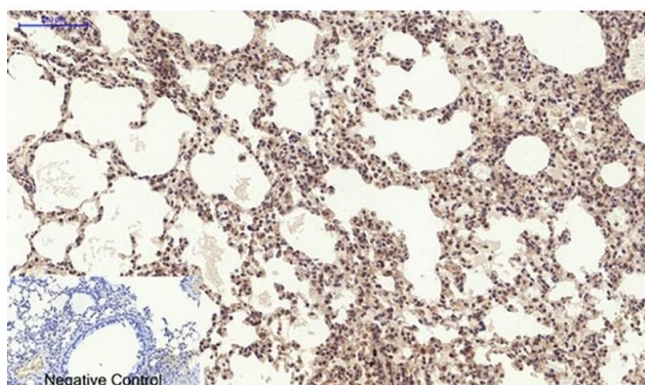
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS containing 50 % Glycerol, 0.5 % BSA and 0.02 % Sodium Azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage: -20 °C

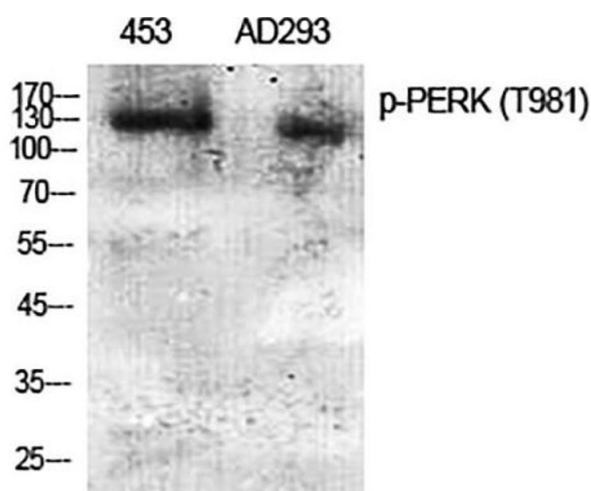
Storage Comment: Stable for one year at -20°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing.

Images



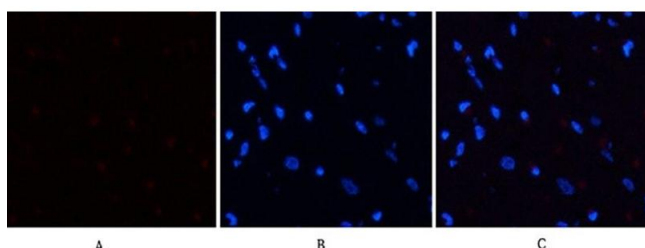
Immunohistochemistry

Image 1. Immunohistochemical analysis of paraffin-embedded mouse lung tissue. 1, PERK (phospho Thr981) Polyclonal Antibody was diluted at 1:200 (4 °C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98 °C, 20 min). 3, secondary antibody was diluted at 1:200 (room temperature, 30 min). Negative control was used by secondary antibody only.



Western Blotting

Image 2. Western Blot analysis of 453(1), AD293(2), diluted at 1:2000.



Immunofluorescence

Image 3. Immunofluorescence analysis of rat heart tissue. 1, PERK (phospho Thr981) Polyclonal Antibody (red) was diluted at 1:200 (4 °C, overnight). 2, Cy3 labeled secondary antibody was diluted at 1:300 (room temperature, 50 min). 3, Picture B: DAPI (blue) 10 min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B.

Images

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN7213340.