

Datasheet for ABIN6255756
anti-PERK antibody (pThr982)

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Overview

Quantity:	100 µL
Target:	PERK (EIF2AK3)
Binding Specificity:	pThr982
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PERK antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human PERK around the phosphorylation site of Thr982.
Isotype:	IgG
Specificity:	Phospho-PERK (Thr982) Antibody detects endogenous levels of PERK only when phosphorylated at Thr982.
Predicted Reactivity:	Pig,Bovine,Horse,Sheep,Rabbit,Dog,Chicken,Xenopus
Purification:	Immunogen affinity purified

Target Details

Target:	PERK (EIF2AK3)
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Target Details

Alternative Name:	EIF2AK3 (EIF2AK3 Products)
Background:	<p>Description: 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.</p> <p>Gene: EIF2AK3</p>
Molecular Weight:	125 kDa
Gene ID:	9451
UniProt:	Q9NZJ5
Pathways:	Hormone Transport , ER-Nucleus Signaling , Positive Regulation of Endopeptidase Activity , Hepatitis C

Application Details

Application Notes:	WB 1:1000-3000, IHC 1:50-1:200, IF/ICC 1:100-500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.

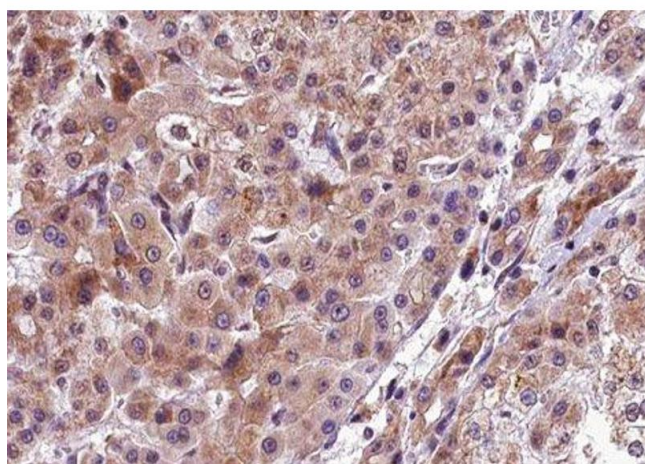
Handling

Expiry Date: 12 months

Publications

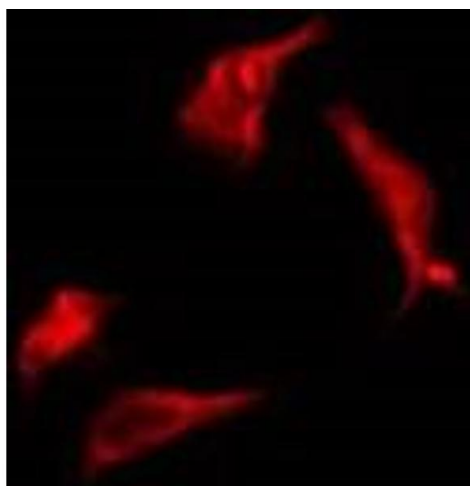
Product cited in: Muhanhali, Zhai, Jiang, Ai, Zhu, Ling: "Long Non-coding Antisense RNA TNRC6C-AS1 Is Activated in Papillary Thyroid Cancer and Promotes Cancer Progression by Suppressing TNRC6C Expression." in: **Frontiers in endocrinology**, Vol. 9, pp. 360, (2018) ([PubMed](#)).

Images



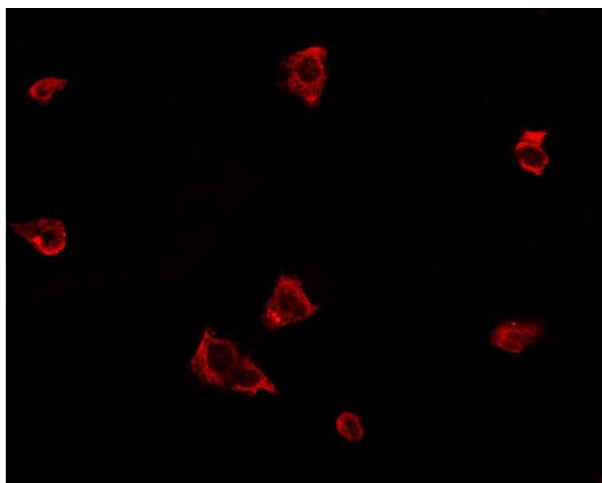
Immunohistochemistry

Image 1. ABIN6277783 at 1/100 staining human liver carcinoma tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary



Immunofluorescence (fixed cells)

Image 2. ABIN6277783 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody



Immunofluorescence (fixed cells)

Image 3. ABIN6277783 staining A549 cells by ICC/IF. Cells were fixed with PFA and permeabilized in 0.1% saponin prior to blocking in 10% serum for 45 minutes at 37°C. The primary antibody was diluted 1/200 and incubated with the sample for 1 hour at 37°C. A Alexa Fluor 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary antibody

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN6255756.