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# Datasheet for ABIN744713 anti-PERK antibody (pThr980)

3 Images

14 Publications



### Overview

Quantity:	100 µL
Target:	PERK (EIF2AK3)
Binding Specificity:	pThr980
Reactivity:	Human, Mouse, Rat, Dog, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PERK antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

## Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from mouse PERK around the phosphorylation site of Thr980
Isotype:	lgG
Cross-Reactivity:	Dog, Human, Mouse, Pig, Rat
Predicted Reactivity:	Cow,Rabbit
Purification:	Purified by Protein A.
Target Details	

Target Details

Target:

## PERK (EIF2AK3)

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Target Details	
Alternative Name:	PERK (EIF2AK3 Products)
Background:	Synonyms: Pek, Perk, Al427929, Eukaryotic translation initiation factor 2-alpha kinase 3, PRKR- like endoplasmic reticulum kinase, Pancreatic eIF2-alpha kinase, Eif2ak3 Background: 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. 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.
Gene ID:	13666
UniProt:	Q9Z2B5
Pathways:	Hormone Transport, ER-Nucleus Signaling, Positive Regulation of Endopeptidase Activity, Hepatitis C, Unfolded Protein Response

## Application Details

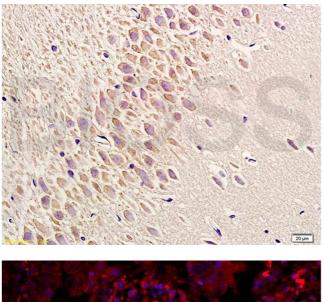
	ELISA 1:500-1000 FCM 1:20-100
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200
Restrictions:	For Research Use only

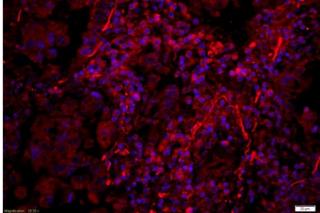
## Handling

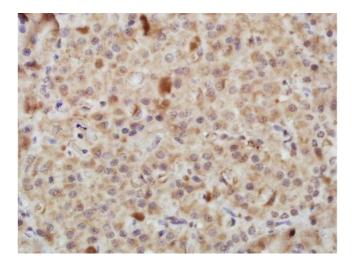
Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

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Handling	
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months
Publications	
Product cited in:	Kao, Lai, Chow, Liao, Zheng, Tsai, Hsia, Lai, Lee, Chuang, Whang-Peng, Yao: "Opposite
	Regulation of CHOP and GRP78 and Synergistic Apoptosis Induction by Selenium Yeast and
	Fish Oil via AMPK Activation in Lung Adenocarcinoma Cells." in: <b>Nutrients</b> , Vol. 10, Issue 10, ( 2019) (PubMed).
	Ju, Su, Chen, Ma, Ji, Wang, Li, Li: "Protective effects of Astragaloside IV on endoplasmic
	reticulum stress-induced renal tubular epithelial cells apoptosis in type 2 diabetic nephropathy
	rats." in: Biomedicine & pharmacotherapy, Vol. 109, pp. 84-92, (2019) (PubMed).
	Gerbino, Bottillo, Milano, Lipari, Zio, Morlino, Mola, Procino, Re, Zachara, Grammatico, Svelto,
	Carmosino: "Functional Characterization of a Novel Truncating Mutation in Lamin A/C Gene in a
	Family with a Severe Cardiomyopathy with Conduction Defects." in: Cellular physiology and
	biochemistry : international journal of experimental cellular physiology, biochemistry, and
	pharmacology, Vol. 44, Issue 4, pp. 1559-1577, (2018) (PubMed).
	Fang, Liu, Wu, Liu, Pan, Li: "Upregulation of long noncoding RNA CCAT1-L promotes epithelial-
	mesenchymal transition in gastric adenocarcinoma." in: <b>OncoTargets and therapy</b> , Vol. 11, pp. 5647-5655, (2018) (PubMed).
	Fang, Yan, Teng, Wen, Li, Peng, Liu, Donadeu, Zhao, Hua: "Melatonin prevents senescence of canine adipose-derived mesenchymal stem cells through activating NRF2 and inhibiting ER
	stress." in: <b>Aging</b> , Vol. 10, Issue 10, pp. 2954-2972, (2018) (PubMed).
	There are more publications referencing this product on: Product page







#### Immunohistochemistry

**Image 1.** Formalin-fixed and paraffin embedded rat brain labeled with Anti-Phospho-PERK(Thr980) Polyclonal Antibody, Unconjugated (ABIN744713) at 1:200 followed by conjugation to the secondary antibody and DAB staining

#### Immunofluorescence

**Image 2.** Formalin-fixed and paraffin-embedded human lung carcinoma labeled with Anti-Phospho-PERK(Thr980) Polyclonal Antibody, Unconjugated (ABIN744713) 1:200, overnight at 4°C, The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated used at 1:200 dilution for 40 minutes at 37°C.

#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 3.** Paraformaldehyde-fixed, paraffin embedded rat pancreas tissue, Antigen retrieval by boiling in sodium citrate buffer(pH6) for 15min, Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes, Blocking buffer (normal goat serum) at 37°C for 20min, Antibody incubation with Rabbit Anti-PERK (Thr980) Polyclonal Antibody, Unconjugated at 1:400 overnight at 4°C, followed by a conjugated secondary and DAB staining

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