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# anti-PERK antibody (C-Term)

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**Publications** 



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Quantity:	100 μL
Target:	PERK (EIF2AK3)
Binding Specificity:	C-Term
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**

lmmunogen:	A synthesized peptide derived from human PERK, corresponding to a region within C-terminal amino acids.
Isotype:	IgG
Specificity:	PERK Antibody detects endogenous levels of total PERK.
Predicted Reactivity:	Pig,Bovine,Horse,Sheep,Rabbit,Dog,Chicken,Xenopus
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink <sup>TM</sup> Coupling Resin (Thermo Fisher Scientific).

### **Target Details**

Target: PERK (EIF2AK3)

## Target Details

Alternative Name:	EIF2AK3 (EIF2AK3 Products)	
Background:	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.  Gene: EIF2AK3	
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 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, 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.	

**Expiry Date:** 

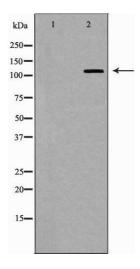
12 months

#### **Publications**

Product cited in:

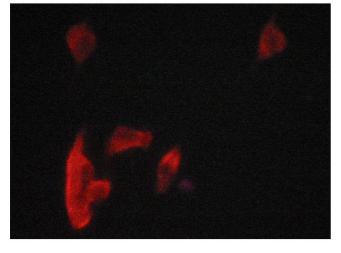
Wang, Zhang, Meng, Wang, Li, Liu. "Ozone protects the rat lung from ischemia-reperfusion injury by attenuating NLRP3-mediated inflammation, enhancing Nrf2 antioxidant activity and inhibiting apoptosis." in: **European journal of pharmacology**, Vol. 835, pp. 82-93, (2018) (PubMed).

#### **Images**



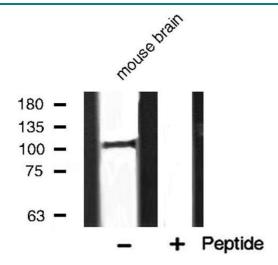
#### **Western Blotting**

**Image 1.** Western blot analysis of PERK expression in Hela cells. The lane on the left is treated with the antigen-specific peptide.



#### Immunofluorescence (fixed cells)

**Image 2.** ABIN6268851 staining lovo 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 1/400 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.



#### **Western Blotting**

**Image 3.** Western blot analysis of PERK expression in mouse brain

Please check the product details page for more images. Overall 4 images are available for ABIN6264143.