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## Datasheet for ABIN392617 anti-PERK antibody (N-Term)

2 Images

1 Publication



#### Overview

Quantity:	400 µL
Target:	PERK (EIF2AK3)
Binding Specificity:	AA 148-175, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PERK antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Immunogen:	This PERK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 148-175 amino acids from the N-terminal region of human PERK.
Clone:	RB15305
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

### Target Details

Target:	PERK (EIF2AK3)
Alternative Name:	PERK (EIF2AK3 Products)

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## Target Details

Background:	PERK, a member of the GCN2 subfamily of Ser/Thr protein kinases, 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. It likely
	serves as a critical effector of unfolded protein response (UPR)-induced G1 growth arrest due
	to the loss of cyclin D1 Perturbation in protein folding in the endoplasmic reticulum (ER)
	promotes reversible dissociation from HSPA5/BIP and oligomerization, resulting in
	transautophosphorylation and kinase activity induction Expression of this Type I membrane
	protein is ubiquitous, with highest levels seen in secretory tissues. Defects in EIF2AK3 are the
	cause of Wolcott-Rallison syndrome (WRS), also known as multiple epiphyseal dysplasia with
	early-onset diabetes mellitus. WRS is a rare autosomal recessive disorder, characterized by
	permanent neonatal or early infancy insulin-dependent diabetes and, at a later age, epiphyseal
	dysplasia, osteoporosis, growth retardation and other multisystem manifestations, such as
	hepatic and renal dysfunctions, mental retardation and cardiovascular abnormalities.
Molecular Weight:	125216

Gene ID:	9451
NCBI Accession:	NP_004827
UniProt:	Q9NZJ5
Pathways:	Hormone Transport, ER-Nucleus Signaling, Positive Regulation of Endopeptidase Activity,
	Hepatitis C

## Application Details

Application Notes:	WB: 1:1000. IHC-P: 1:50~100
Restrictions:	For Research Use only

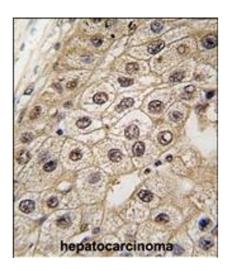
#### Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) 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.
Storage:	4 °C,-20 °C

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Handling	
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months
Publications	
Product cited in:	Abdelalim, Masuda, Tooyama: "Expression of natriuretic peptide-activated guanylate cyclases by cholinergic and dopaminergic amacrine cells of the rat retina." in: <b>Peptides</b> , Vol. 29, Issue 4, pp. 622-8, (2008) (PubMed).
	Dams, Van Acker, Gustin, Vereycken, Bunkens, Holemans, Smeulders, Clayton, Ohagen, Hertogs: "A time-resolved fluorescence assay to identify small-molecule inhibitors of HIV-1 fusion." in: Journal of biomolecular screening, Vol. 12, Issue 6, pp. 865-74, (2007) (PubMed).
	Tomescot, Leschik, Bellamy, Dubois, Messas, Bruneval, Desnos, Hagège, Amit, Itskovitz, Menasché, Pucéat: "Differentiation in vivo of cardiac committed human embryonic stem cells in postmyocardial infarcted rats." in: <b>Stem cells (Dayton, Ohio)</b> , Vol. 25, Issue 9, pp. 2200-5, (2007) (PubMed).

#### Images

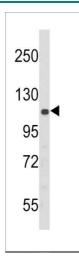


#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with PERK antibody (N-term ) (ABIN392617 and ABIN2842134) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated.

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#### Images



#### Western Blotting

**Image 2.** Western blot analysis of PERK Antibody (N-term ) (ABIN392617 and ABIN2842134) in 293 cell line lysates (35  $\mu$ g/lane). PERK (arrow) was detected using the purified Pab.

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