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Datasheet for ABIN3030887 anti-PERK antibody (AA 148-175)

3 Images



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Overview

Quantity:	0.4 mL
Target:	PERK (EIF2AK3)
Binding Specificity:	AA 148-175
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PERK antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)
Product Details	
Immunogen:	A portion of amino acids 148-175 from the human protein was used as the immunogen for this
	PERK antibody.
lsotype:	Ig Fraction
Purification:	Purified

Target Details

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

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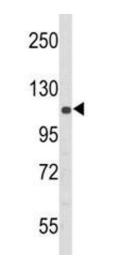
Application Notes:	Titration of the PERK antibody may be required due to differences in protocols and
Application Details	
Pathways:	Hormone Transport, ER-Nucleus Signaling, Positive Regulation of Endopeptidase Activity, Hepatitis C, Unfolded Protein Response
UniProt:	Q9NZJ5
	protein is ubiquitous, with 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.
	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
	serves as a critical effector of unfolded protein response (UPR)-induced G1 growth arrest due

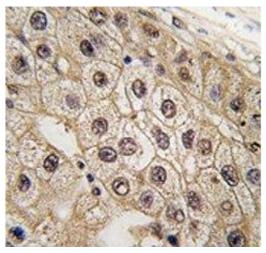
Application Notes:	litration of the PERK antibody may be required due to differences in protocols and
	secondary/substrate sensitivity.\. Western blot: 1:1000,IHC (Paraffin): 1:50-1:100
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	In 1X PBS pH 7.4 with 0.09 % 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:	-20 °C
Storage Comment:	Aliquot the PERK antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.

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250 130 95 72 55

Western Blotting

Image 1. Western blot analysis of PERK antibody and 293 lysate

Immunohistochemistry

Image 2. IHC analysis of FFPE human hepatocarcinoma tissue stained with PERK antibody

Western Blotting

Image 3. Western blot analysis of PERK antibody and 293 lysate

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