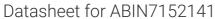
antibodies -online.com







anti-PERK antibody (AA 115-330)



Images



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Overview	
Quantity:	100 μL
Target:	PERK (EIF2AK3)
Binding Specificity:	AA 115-330
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PERK antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)
Product Details	
Immunogen:	Recombinant Human Eukaryotic translation initiation factor 2-alpha kinase 3 protein (115-330AA)
Isotype:	IgG
Cross-Reactivity:	Human

Target Details

Purification:

Target:	PERK (EIF2AK3)
Alternative Name:	EIF2AK3 (EIF2AK3 Products)
Background: Background: Metabolic-stress sensing protein kinase that phosphorylates the alp	

>95%, Protein G purified

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.

Aliases: DKFZp781H1925 antibody, E2AK3_HUMAN antibody, EC 2.7.11.1 antibody, Eif2ak3 antibody, Eukaryotic translation initiation factor 2 alpha kinase 3 antibody, Eukaryotic translation factor 2-alpha kinase 3 antibody, Heme regulated EIF2 alpha kinase antibody, HRI antibody, HSPEK antibody, Pancreatic eIF2 alpha kinase antibody, Pancreatic eIF2-alpha kinase antibody, PEK antibody, PRKR like endoplasmic reticulum kinase antibody, PRKR-like endoplasmic reticulum kinase antibody, WRS antibody

UniProt:

Q9NZJ5

Pathways:

Hormone Transport, ER-Nucleus Signaling, Positive Regulation of Endopeptidase Activity, Hepatitis C

Application Details

Application Notes:

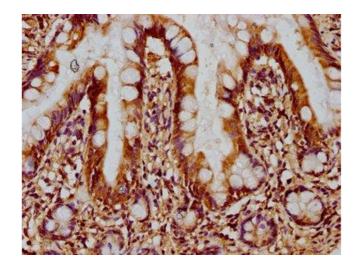
Recommended dilution: IHC:1:200-1:500, IF:1:50-1:200,

Restrictions:

For Research Use only

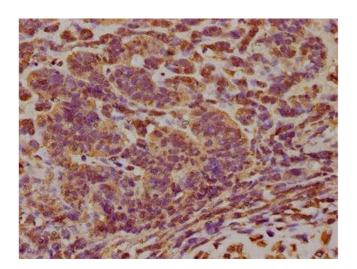
Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



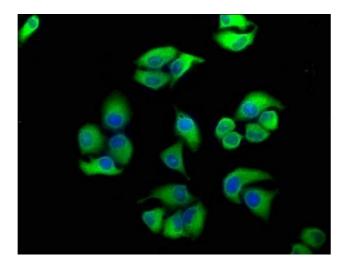
Immunohistochemistry

Image 1. IHC image of ABIN7152141 diluted at 1:300 and staining in paraffin-embedded human small intestine tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10 % normal goat serum 30 min at RT. Then primary antibody (1 % BSA) was incubated at 4 °C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunohistochemistry

Image 2. IHC image of ABIN7152141 diluted at 1:300 and staining in paraffin-embedded human ovarian cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30 min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunofluorescence

Image 3. Immunofluorescence staining of Hela cells with ABIN7152141 at 1:100, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).