

Datasheet for ABIN7138887
anti-PERK antibody (pThr981)



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1 Image

Overview

Quantity:	100 µL
Target:	PERK (EIF2AK3)
Binding Specificity:	pThr981
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PERK antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Peptide sequence around phosphorylation site of threonine 981(A-R-H(p)-T-G) derived from Human PEK/PERK.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using

Target Details

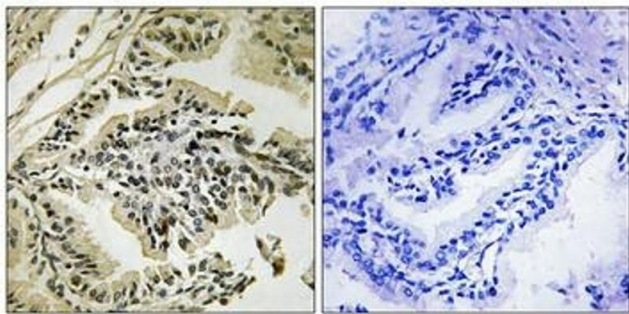
Target:	PERK (EIF2AK3)
Alternative Name:	EIF2AK3 (EIF2AK3 Products)

Target Details

Background:	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) Shi Y., An J., J. Biol. Chem. 274:5723-5730(1999). Sood R., Biochem. J. 346:281-293(2000). The MGC Project Team, Genome Res. 14:2121-2127(2004). 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 initiation 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 , Unfolded Protein Response

Application Details

Application Notes:	IHC:1:50-1:100,
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), 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,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



Immunohistochemistry

Image 1. Immunohistochemical analysis of paraffin-embedded human prostate carcinoma tissue using PEK/PERK (Phospho-Thr982) antibody (left) or the same antibody preincubated with blocking peptide (right).