

Datasheet for ABIN6285398
anti-PERK antibody (AA 920-1000)



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Overview

Quantity:	50 µL
Target:	PERK (EIF2AK3)
Binding Specificity:	AA 920-1000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PERK antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	PERK is a protein encoded by the EIF2AK3 gene which is approximately 125,2 kDa. PERK is localised to the endoplasmic reticulum membrane. It is involved in respiratory electron transport, apoptosis modulation and signalling and animal autophagy. It phosphorylates the alpha subunit of eukaryotic translation-initiation factor 2, leading to its inactivation, and a rapid reduction of translational initiation and repression of global protein synthesis. PERK is expressed in the nervous system, liver, pancreas, lung and heart. Mutations in the EIF2AK3 gene may result in Wolcott-Rallison syndrome and diversion colitis. STJ95031 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. This polyclonal antibody detects endogenous levels of PERK protein only when phosphorylated at T981.
Immunogen:	Synthesized peptide derived from human PERK around the non-phosphorylation site of T981.
Isotype:	IgG

Product Details

Specificity:	PERK Polyclonal Antibody detects endogenous levels of PERK protein.
Characteristics:	Rabbit polyclonal to PERK.
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Target Details

Target:	PERK (EIF2AK3)
Alternative Name:	PERK (EIF2AK3 Products)
Molecular Weight:	125 kDa
Gene ID:	9451
UniProt:	Q9NZJ5
Pathways:	Hormone Transport , ER-Nucleus Signaling , Positive Regulation of Endopeptidase Activity , Hepatitis C , Unfolded Protein Response

Application Details

Application Notes:	WB 1:500-1:2000 IHC 1:100-1:300 ELISA 1:40000
Comment:	Ubiquitous. A high level expression is seen in secretory tissues.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Liquid in PBS containing 50 % glycerol, 0.5 % BSA and 0.02 % 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

Handling

Storage Comment: Store at -20°C, and avoid repeat freeze-thaw cycles.