

## PEK/PERK Polyclonal Antibody

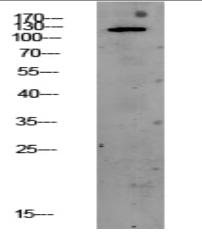
Catalog No :	YT6126
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	PERK
Fields :	>>Mitophagy - animal;>>Autophagy - animal;>>Protein processing in endoplasmic reticulum;>>Apoptosis;>>Non-alcoholic fatty liver disease;>>Alzheimer disease;>>Parkinson disease;>>Amyotrophic lateral sclerosis;>>Prion disease;>>Pathways of neurodegeneration - multiple diseases;>>Hepatitis C;>>Measles;>>Herpes simplex virus 1 infection;>>Lipid and atherosclerosis
Gene Name :	EIF2AK3 PEK PERK
Protein Name :	Eukaryotic translation initiation factor 2-alpha kinase 3 (EC 2.7.11.1) (PRKR-like endoplasmic reticulum kinase) (Pancreatic eIF2-alpha kinase) (HsPEK)
Human Gene Id :	9451
Human Swiss Prot	Q9NZJ5
No:	Q9Z2B5
Mouse Swiss Prot No :	Q9Z2B5
Rat Gene Id :	29702
Rat Swiss Prot No :	Q9Z1Z1
Immunogen :	Synthesized peptide derived from human PEK/PERK Polyclonal
Specificity :	This antibody detects endogenous levels of PEK/PERK.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG



Best Tools for immunology Research	
Dilution :	WB 1:500-2000, ELISA 1:10000-20000
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-
	chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	130kD
Cell Pathway :	Alzheimer's disease;
Background :	The protein encoded by this gene phosphorylates the alpha subunit of eukaryotic
	translation-initiation factor 2, leading to its inactivation, and thus to a rapid
	reduction of translational initiation and repression of global protein synthesis. This protein is thought to modulate mitochondrial function. It is a type I membrane
	protein located in the endoplasmic reticulum (ER), where it is induced by ER
	stress caused by malfolded proteins. Mutations in this gene are associated with
	Wolcott-Rallison syndrome. [provided by RefSeq, Sep 2015],
Function :	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,disease:Defects in
	EIF2AK3 are the cause of Wolcott-Rallison syndrome (WRS) [MIM:226980]; 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.,domain: The lumenal domain senses perturbations in protein
	folding in the ER, probably through reversible interaction with HSPA5/BIP.,enzyme regulation:Perturbation in protein folding in the endoplasmic
	reticulum (ER) promotes reversible dissociation from HSPA5/BIP and
	oligomerization, resulting in transautophosphorylation and kinase act
Subcellular	Endoplasmic reticulum membrane; Single-pass type I membrane protein.
Location :	
Expression :	Ubiquitous. A high level expression is seen in secretory tissues.

Products Images





Western blot analysis of CACO2 lysate, antibody was diluted at 1000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000