



Rabbit Anti-Phospho-PERK (Thr980) antibody

SL23340R

Product Name:	Phospho-PERK (Thr980)
Chinese Name:	磷酸化蛋白激酶样内质网激酶抗体
Alias:	p-PERK(Thr980); PERK(Phospho Thr980); PERK(Phospho T980); Phospho-PERK(Thr982)(human); HRI; HsPEK; Pancreatic eIF2-alpha kinase; PEK; PRKR like endoplasmic reticulum kinase; WRS; DKFZp781H1925; EC 2.7.11.1; EIF2AK3; Eukaryotic translation initiation factor 2 alpha kinase 3; Heme regulated EIF2 alpha kinase.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	119kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthesised phosphopeptide derived from human PERK around the phosphorylation site of Thr980:H(p-T)GQ
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The protein encoded by this gene 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 is a type I membrane protein located in the endoplasmic reticulum (ER), where it is induced by ER stress caused by malformed proteins. Mutations in this gene are associated with Wolcott-Rallison syndrome. [provided by RefSeq, Jan 2010].

Function:

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.

Subunit:

Forms dimers with HSPA5/BIP in resting cells. Oligomerizes in ER-stressed cells. Interacts with DNAJC3.

Subcellular Location:

Endoplasmic reticulum membrane; Single-pass type I membrane protein.

Tissue Specificity:

Ubiquitous.

Post-translational modifications:

Autophosphorylated.

N-glycosylated.

Similarity:

Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. GCN2 subfamily.

Contains 1 protein kinase domain.

SWISS:

Q9Z2B5

Gene ID:

13666

Database links:

[Entrez Gene: 9451](#)Human

[Entrez Gene: 13666](#)Mouse

[Entrez Gene: 29702](#)Rat

[Omim: 604032](#)Human

[SwissProt: Q9NZJ5](#)Human

[SwissProt: Q9Z2B5](#)Mouse

[SwissProt: Q9Z1Z1](#)Rat

[Unigene: 591589](#)Human

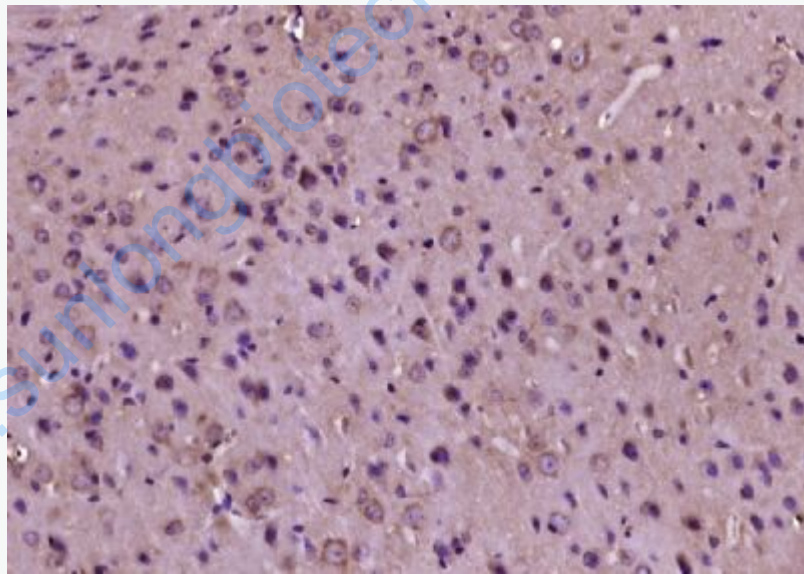
[Unigene: 247167](#)Mouse

[Unigene: 24897](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Phospho-PERK(Thr980)) Polyclonal Antibody, Unconjugated (SL23340R) at 1:400 overnight at 4°C, followed by

	operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.
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