

bs-23340R**[Primary Antibody]****Phospho-PERK (Thr980) Rabbit pAb****Bioss**
ANTIBODIES

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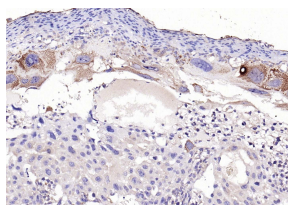
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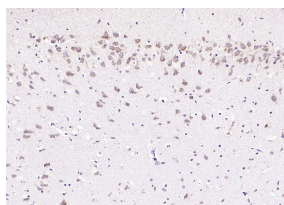
400-901-9800

DATASHEET**Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 9451**SWISS:** Q9NZJ5**Target:** Phospho-PERK (Thr980)**Immunogen:** KLH conjugated synthesised phosphopeptide derived from human PERK around the phosphorylation site of Thr980: H(p-T)GQ.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

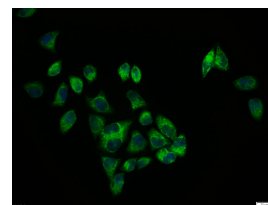
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: 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].**Applications:** IHC-P (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**Flow-Cyt** (1ug/Test)**ICC/IF** (1:100)**Reactivity:** Human, Mouse, Rat
(predicted: Rabbit)**Predicted**
MW.: 119 kDa**Subcellular** Endoplasmic reticulum
Location: ,Membrane**VALIDATION IMAGES**

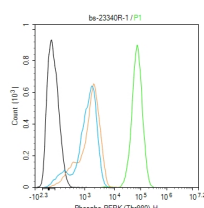
Paraformaldehyde-fixed, paraffin embedded (rat placenta); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Phospho-PERK (Thr980)) Polyclonal Antibody, Unconjugated (bs-23340R) at 1:100 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat 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 (bs-23340R) at 1:100 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (Phospho-PERK (Thr980)) polyclonal Antibody, Unconjugated (bs-23340R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



Blank control (black line) :K562. Primary Antibody (green line): Rabbit Anti-Phospho-PERK (Thr980) antibody (bs-23340R)
Dilution:1ug/Test; Secondary Antibody (white blue line) : Goat anti-rabbit IgG-AF488 Dilution: 0.5ug/Test. Isotype control (orange line) :

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

Normal Rabbit IgG Protocol The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

— SELECTED CITATIONS —

- **[IF=8.101]** Huadong Zhao. et al. Lycorine protects against septic myocardial injury by activating AMPK-related pathways. FREE RADICAL BIO MED. 2023 Jan;: WB ;Mouse. 36669544
- **[IF=6.023]** Yujie Zhong. et al. Jujuboside A ameliorates high fat diet and streptozotocin induced diabetic nephropathy via suppressing oxidative stress, apoptosis, and enhancing autophagy. Food Chem Toxicol. 2022 Jan;159:112697 IHC ;Rat. 34826549
- **[IF=5.396]** Yujie Zhong. et al. Dioscin relieves diabetic nephropathy via suppressing oxidative stress, apoptosis, and improving mitochondrial quality and quantity control. Food Funct. 2022 Feb;: IHC ;Rat. 35262539
- **[IF=3.715]** Jia-Rui Zhang. et al. Bullatine A has an antidepressant effect in chronic social defeat stress mice; Implication of microglial inflammasome. BRAIN RES BULL. 2023 Apr;195:130 WB ;Mouse. 36828203
- **[IF=3.118]** Liu C et al. ROS - mediated PERK - eIF2 α -ATF4 pathway plays an important role in arsenite - induced L - 02 cells apoptosis via regulating CHOP - DR5 signaling. Environ Toxicol . 2020 Oct;35(10):1100-1113. WB ;Human. 32506763