

perk (Phospho-Ser1094) Antibody

Catalog No: #12888



Package Size: #12888-1 50ul #12888-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

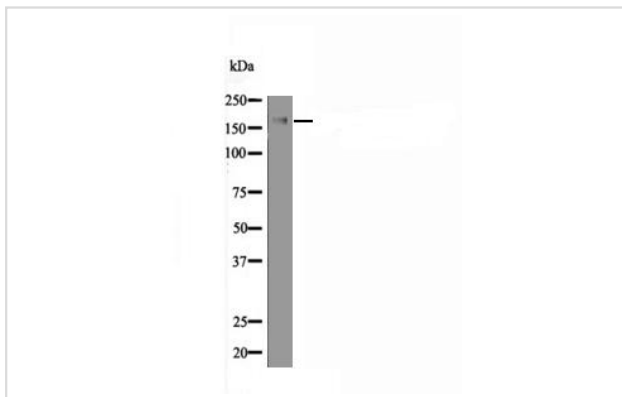
Description

Product Name	perk (Phospho-Ser1094) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Applications	WB
Species Reactivity	Human;Mouse;Rat
Specificity	Phospho-perk (S1094) Antibody detects endogenous levels of perk only when phosphorylated at S1094
Immunogen Type	Peptide-KLH
Immunogen Description	A synthesized peptide derived from human perk (Phospho-Ser1094)
Conjugates	Unconjugated
Target Name	EIF2AK3
Other Names	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
Accession No.	Swiss-Prot#:Q9NZJ5? NCBI Gene ID9451
Calculated MW	170
Concentration	1.0mg mL
Formulation	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺) pH 7.4 150mM NaCl 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

WB dilution:1:1000

Images



Western blot analysis perk (Phospho-Ser1094) using Jurkat whole cell lysates

Product Description

PERK (protein kinase-like endoplasmic reticulum kinase) is an eIF2 α kinase and transmembrane protein resident in the endoplasmic reticulum (ER) membrane that couples ER stress signals to translation inhibition (1-3). ER stress increases the activity of PERK, which then phosphorylates eIF2 α to promote reduced translation. PERK-deficient mice have defects in pancreatic β cells several weeks after birth, suggesting a role for PERK-mediated translational control in protecting secretory cells from ER stress (4). PERK activation during ER stress correlates with autophosphorylation of its cytoplasmic kinase domain (1-3). Phosphorylation of PERK at Thr980 serves as a marker for its activation status.

Published Papers

Ran Hao;Xiaolei Gao;Qi Lu;Tong Zhao;Xinxin Lu;Fuping Zhang;Yanjiao Pei;Jiqing Lang;Huanhuan Liu;Jinggui Song;Zhaohui Zhang et al., CUMS induces depressive-like behaviors and cognition impairment by activating the ERS-NLRP3 signaling pathway in mice., , (2025)

[PMID:39378914](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.