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PERK Monoclonal Antibody

YP-Ab-14182
IgG
Human
WB;ELISA
EIF2AK3
Eukaryotic translation initiation factor 2-alpha kinase 3
Purified recombinant fragment of human PERK expressed in E. Coli.
PERK Monoclonal Antibody detects endogenous levels of PERK protein.
Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
Monoclonal, Mouse
Affinity purification
Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
1 mg/ml
≥90%
-20°C/1 year
EIF2AK3; PEK; PERK; Eukaryotic translation initiation factor 2-alpha kinase 3; PRKR-like endoplasmic reticulum kinase; Pancreatic eIF2-alpha kinase; HsPEK
Endoplasmic reticulum membrane; Single-pass type I membrane protein.
Ubiquitous. A high level expression is seen in secretory tissues.
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



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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],

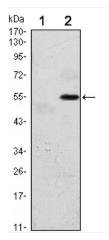
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis using PERK Monoclonal Antibody against HEK293 (1) and EIF2AK3-hlgGFc transfected HEK293 (2) cell lysate.