PERK Rabbit pAb

Catalog No.: A18196 33 Publications



Basic Information

Observed MW

140kDa

Calculated MW

125kDa

Category

Primary antibody

Applications

WB,IHC-P,IF/ICC,ELISA

Cross-Reactivity

Human, Mouse, Rat

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.

Recommended Dilutions

WB 1:500 - 1:1000

IHC-P 1:100 - 1:500

IF/ICC 1:50 - 1:200

ELISA Recommended starting

concentration is 1 µg/mL.

Please optimize the
concentration based on
your specific assay
requirements.

Immunogen Information

 Gene ID
 Swiss Prot

 9451
 Q9NZ|5

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

PEK; WRS; PERK

Contact

<u>a</u>	400-999-6126
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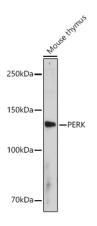
Product Information

SourceIsotypePurificationRabbitIgGAffinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide,50% glycerol,pH7.3.

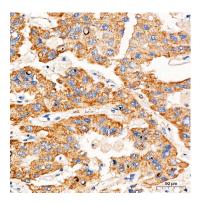


Western blot analysis of lysates from Mouse thymus, using PERK Rabbit pAb (A18196) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit $lgG\ (H+L)\ (AS014)$ at 1:10000 dilution.

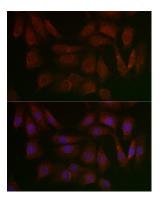
Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021).

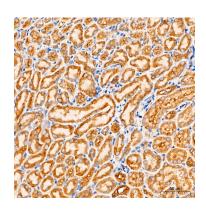
Exposure time: 180s.



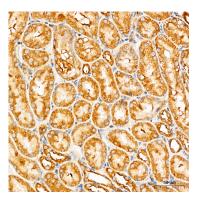
Immunohistochemistry analysis of paraffinembedded Human liver cancer tissue using PERK Rabbit pAb (A18196) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunofluorescence analysis of NIH/3T3 cells using PERK Rabbit pAb (A18196) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunohistochemistry analysis of paraffinembedded Mouse kidney tissue using PERK Rabbit pAb (A18196) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Rat kidney tissue using PERK Rabbit pAb (A18196) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.