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Phospho-PERK-T982 Rabbit pAb

Catalog No.: AP0886 **47 Publications**

Basic Information

Observed MW
170 kDa

Calculated MW
125 kDa

Category
Primary antibody

Applications
WB,IHC-P,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	1:50 - 1:200
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
9451

Swiss Prot
Q9NZJ5

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
PEK; WRS; PERK; Phospho-PERK-T982

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Product Information

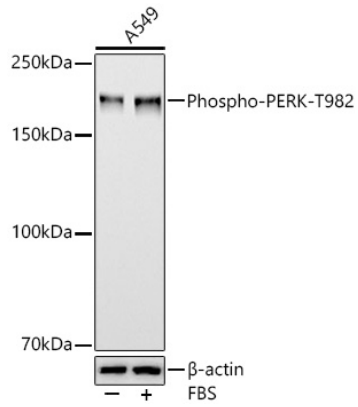
Source
Rabbit

Isotype
IgG

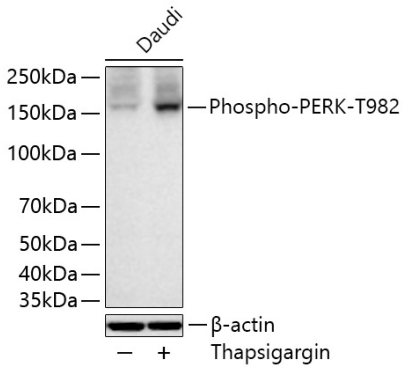
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.

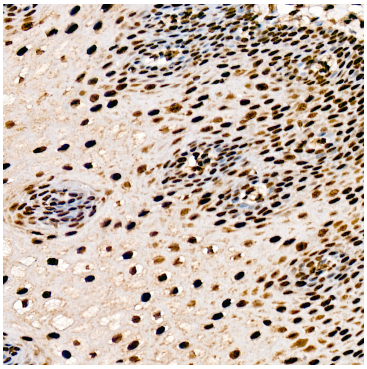
Validation Data



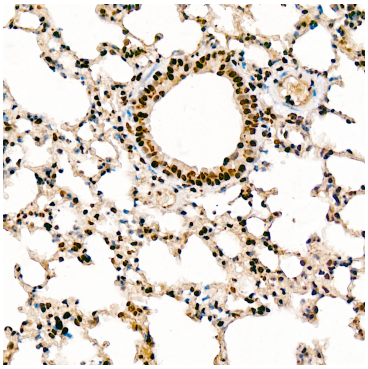
Western blot analysis of lysates from A549 cells using Phospho-PERK-T982 Rabbit pAb (AP0886) at 1:1000 dilution incubated overnight at 4℃. A549 cells were treated by 10% FBS at 37℃ for 5 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3 % nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 180s.



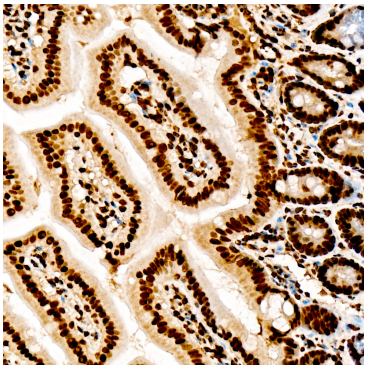
Western blot analysis of lysates from Daudi cells using Phospho-PERK-T982 Rabbit pAb (AP0886) at 1:1000 dilution incubated overnight at 4℃. Daudi cells were treated with Thapsigargin (2 µM) at 37℃ for 30 minutes.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60 s.



Immunohistochemistry analysis of Phospho-PERK-T982 in paraffin-embedded human esophagus tissue using Phospho-PERK-T982 Rabbit pAb (AP0886) at a dilution of 1:100 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

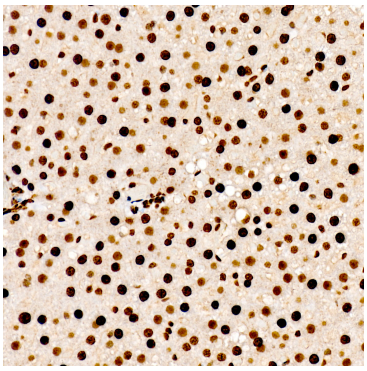


Immunohistochemistry analysis of Phospho-PERK-T982 in paraffin-embedded mouse Intestine tissue using Phospho-PERK-T982 Rabbit pAb (AP0886) at a dilution of 1:100 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Phospho-PERK-T982 in paraffin-embedded mouse liver tissue using Phospho-PERK-T982 Rabbit pAb (AP0886) at a dilution of 1:100 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

Validation Data



Immunohistochemistry analysis of Phospho-PERK-T982 in paraffin-embedded rat lung tissue using Phospho-PERK-T982 Rabbit pAb (AP0886) at a dilution of 1:100 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

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