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Phospho-PERK-T982 Rabbit mAb

Catalog No.: AP1501 Recombinant 4 Publications

Basic Information

Observed MW
170kDa

Calculated MW
125kDa

Category
Primary antibody

Applications
ELISA,WB,IHC-P

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC58934

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

Immunogen Information

Gene ID
9451

Swiss Prot
Q9NZJ5

Immunogen
A synthetic phosphorylated peptide around T982 of human PERK(NP_004827.4).

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

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Product Information

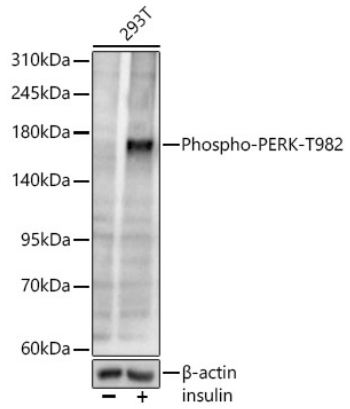
Source
Rabbit

Isotype
IgG

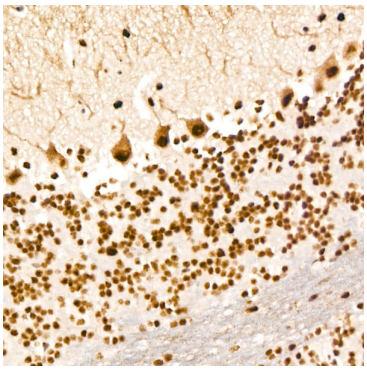
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

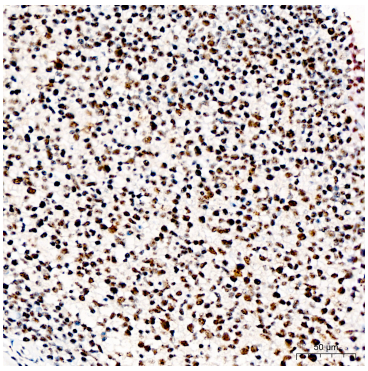
Validation Data



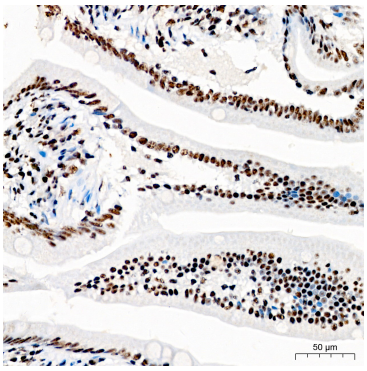
Western blot analysis of lysates from 293T cells, using Phospho-PERK-T982 Rabbit mAb (AP1501) at 1:1000 dilution.293T cells were treated by Insulin (100 nM) at 37℃ for 10 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Enhanced Kit (RM00021).
Exposure time: 45s.



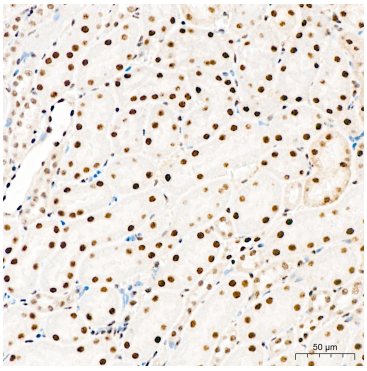
Immunohistochemistry analysis of paraffin-embedded Mouse brain using Phospho-PERK-T982 Rabbit mAb (AP1501) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



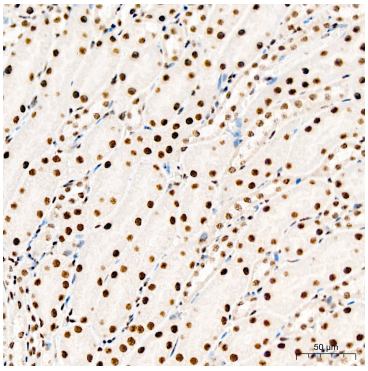
Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using Phospho-PERK-T982 Rabbit mAb (AP1501) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



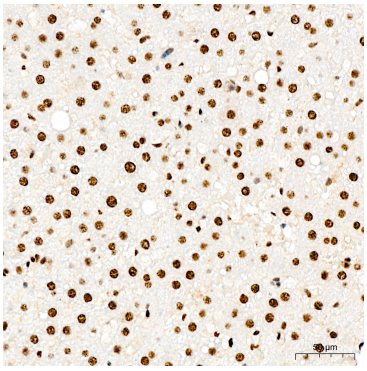
Immunohistochemistry analysis of paraffin-embedded Human small intestine tissue using Phospho-PERK-T982 Rabbit mAb (AP1501) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse kidney tissue using Phospho-PERK-T982 Rabbit mAb (AP1501) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat kidney tissue using Phospho-PERK-T982 Rabbit mAb (AP1501) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat liver tissue using Phospho-PERK-T982 Rabbit mAb (AP1501) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.