

Phospho-PERK-T982 Rabbit mAb

Catalog No.: AP1501 **Recombinant** **2 Publications**

Basic Information

Observed MW

170kD

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 malformed 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

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Product Information

Source

Rabbit

Isotype

IgG

Purification

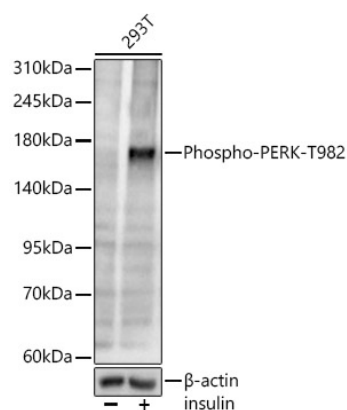
Affinity purification

Storage

Store at -20°C. 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°C for 10 minutes after serum-starvation overnight.

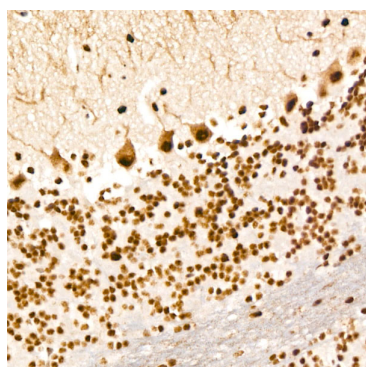
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.

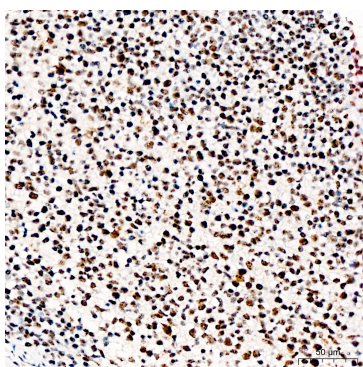
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Enhanced Kit (RM00021).

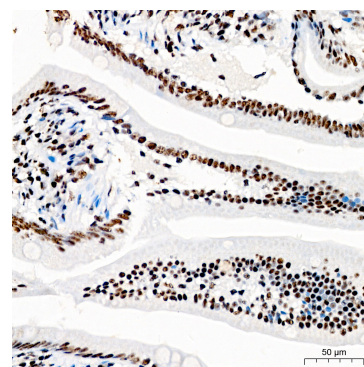
Exposure time: 45s.



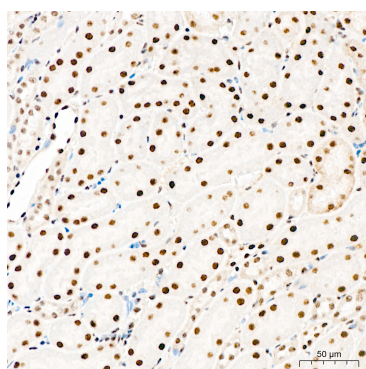
Immunohistochemistry analysis of Phospho-PERK-T982 in paraffin-embedded mouse brain using Phospho-PERK-T982 Rabbit mAb (AP1501) at dilution of 1:200 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



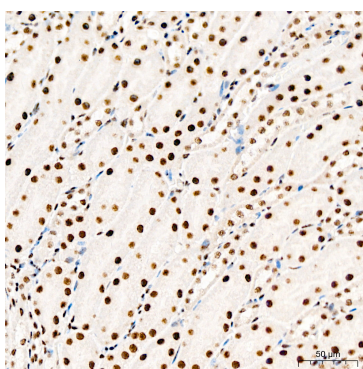
Immunohistochemistry analysis of Phospho-PERK-T982 in paraffin-embedded Human tonsil tissue using Phospho-PERK-T982 Rabbit mAb (AP1501) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



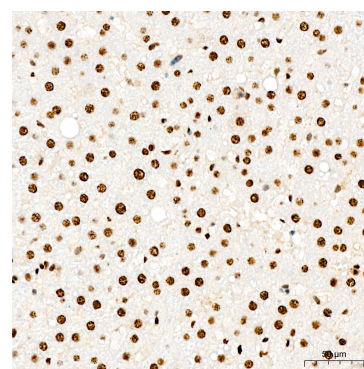
Immunohistochemistry analysis of Phospho-PERK-T982 in paraffin-embedded Human small intestine tissue using Phospho-PERK-T982 Rabbit mAb (AP1501) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Phospho-PERK-T982 in 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 Buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Phospho-PERK-T982 in 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 Buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Phospho-PERK-T982 in 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 Buffer (pH 6.0) prior to IHC staining.