Leader in Biomolecular Solutions for Life Science

Phospho-PERK-T982 Rabbit mAb

Catalog No.: AP1501

Recombinant | 19 Publications

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Basic Information

Observed MW
170 kDa

Calculated MW
125 kDa

Category
Monoclonal Antibodies

Applications
WB, IHC-P, ELISA

Cross Reactivity
Human, Mouse, Rat

Clone No.
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	1:1000 - 1:2000
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

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Product Information

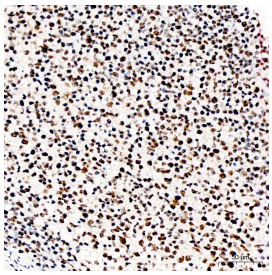
Source
Rabbit

Isotype
IgG

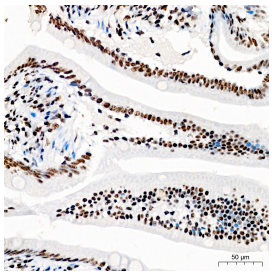
Purity
Affinity purification

Storage
Store at -20℃

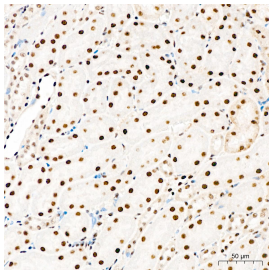
Validation Data



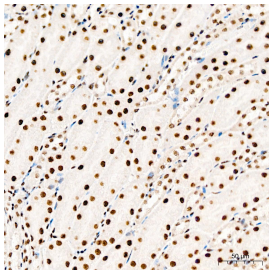
Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using Phospho-PERK-T982 Rabbit mAb (AP1501) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



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 buffer (pH 6.0) prior to IHC staining.



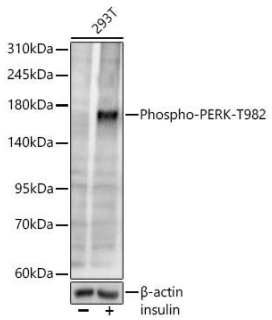
Immunohistochemistry analysis of paraffin-embedded Mouse kidney tissue using Phospho-PERK-T982 Rabbit mAb (AP1501) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



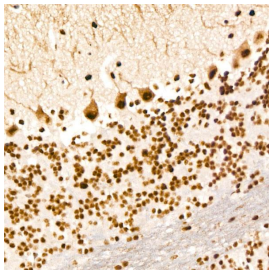
Immunohistochemistry analysis of paraffin-embedded Rat kidney tissue using Phospho-PERK-T982 Rabbit mAb (AP1501) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



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 buffer (pH 6.0) prior to IHC staining.



Western blot analysis of lysates from 293T cells, using Phospho-PERK-T982 Rabbit mAb (AP1501) at 1:1000 dilution. 293T cells were treated with 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 buffer (pH 6.0) prior to IHC staining.