

PERK monoclonal antibody

Catalog: MB67232

Host: Mouse

Reactivity: Human, Mouse, Rat

BackGround:

Protein kinase-like endoplasmic reticulum kinase (PERK) is an eIF2 α kinase and transmembrane protein resident in the endoplasmic reticulum (ER) membrane that couples ER stress signals to translation inhibition. ER stress increases the activity of PERK, which then phosphorylates eIF2 α to promote reduced translation. Research studies have demonstrated that PERK-deficient mice have defects in pancreatic β cells several weeks after birth, suggesting a role for PERK-mediated translational control in protecting secretory cells from ER stress. PERK activation during ER stress correlates with autophosphorylation of its cytoplasmic kinase domain. Phosphorylation of PERK at Thr980 serves as a marker for its activation status.

Product:

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 125 kDa

Swiss-Prot:

Q9NZJ5

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000)

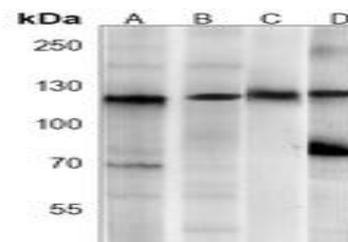
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of PERK protein.

DATA:



Western blot analysis of PERK expression in A549 (A), PC12 (B), mouse brain (C), mouse liver (D) whole cell lysates.

Note:

For research use only, not for use in diagnostic procedure.

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