

Anti-PERK Antibody [PSH0-81] - BSA and Azide free

HA750661



Product Type: Recombinant Rabbit monoclonal IgG, primary antibodies

Species reactivity: Human

Applications: WB

Molecular Wt: Predicted band size: 125 kDa

Clone number: PSH0-81

Description: Eukaryotic translation initiation factor 2-alpha kinase 3, also known as protein kinase R (PKR)-like endoplasmic reticulum kinase (PERK), is an enzyme that in humans is encoded by the EIF2AK3 gene. The protein encoded by this gene phosphorylates the alpha subunit of eukaryotic translation-initiation factor 2 (EIF2), leading to its inactivation, and thus to a rapid reduction of translational initiation and repression of global protein synthesis. It is a type I membrane protein located in the endoplasmic reticulum (ER), where it is induced by ER stress caused by malfolded proteins. Patients with mutations in this gene develop Wolcott-Rallison syndrome. EIF2AK3 has been shown to interact with DNAJC3, NFE2L2, and endoplasmic reticulum chaperone BiP (Hsp70).

Immunogen: Recombinant protein within human PERK aa 51-450 / 1,116.

Positive control: MCF7 cell lysate, HepG2 cell lysate, HEK-293 cell lysate, HeLa cell lysate, A549 cell lysate, U-87 MG cell lysate, K-562 cell lysate.

Subcellular location: Endoplasmic reticulum membrane.

Database links: SwissProt: Q9NZJ5 Human

Recommended Dilutions:

WB 1:1,000

Storage Buffer: PBS (pH7.4).

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

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Orders:0086-571-88062880

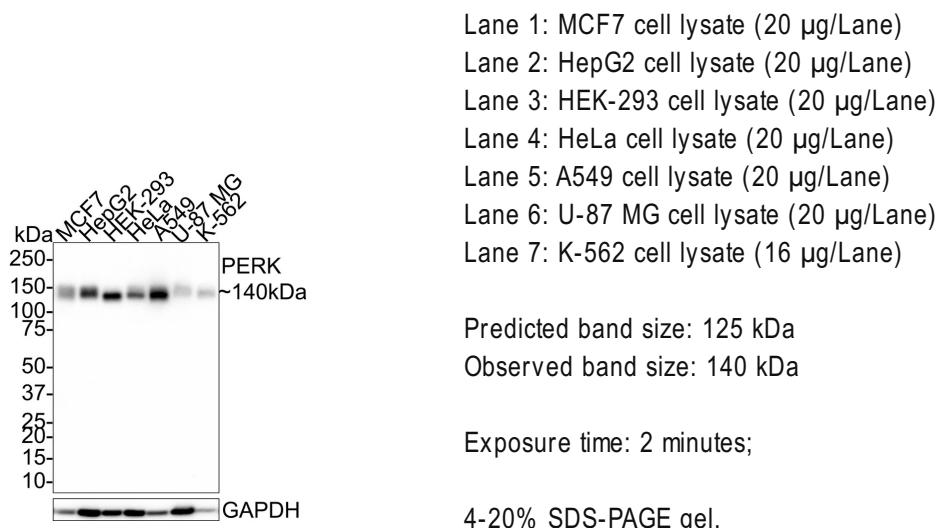
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Images

Fig1: Western blot analysis of PERK on different lysates with Rabbit anti-PERK antibody (HA750661) at 1/1,000 dilution.



Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA750661) at 1/1,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:100,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Zhang D et al. A non-canonical cGAS-STING-PERK pathway facilitates the translational program critical for senescence and organ fibrosis. *Nat Cell Biol.* 2022 May
2. Raines LN et al. PERK is a critical metabolic hub for immunosuppressive function in macrophages. *Nat Immunol.* 2022 Mar

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