

Product Datasheet

PERK Antibody - BSA Free NBP1-78017

Unit Size: 0.1 ml

Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.

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NBP1-78017

PERK Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Sodium Azide
Isotype	Serum
Purity	Unpurified
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

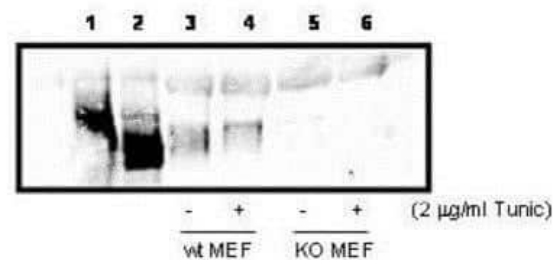
Product Description	
Description	<p>This antiserum is directed against PERK and reacts with the PERK from mouse tissues</p> <p>Store vial at -20C prior to opening. Aliquot contents and freeze at -20C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4C as an undiluted liquid. Dilute only prior to immediate use.</p>
Host	Rabbit
Gene ID	9451
Gene Symbol	EIF2AK3
Species	Mouse
Reactivity Notes	This antiserum is directed against PERK and reacts with the PERK from mouse tissues. Reactivity to other species is unknown.
Specificity/Sensitivity	This antiserum is directed against PERK and reacts with the PERK from mouse tissues.
Immunogen	This whole rabbit serum was prepared by repeated immunizations with a recombinant fusion protein from amino acids 601-1115 of mouse deltaN PERK. (Uniprot: Q9Z2B5)

Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Knockout Validated
Recommended Dilutions	Western Blot 1:500-1:3000, ELISA 1:4000-1:20000, Immunohistochemistry 1:1000, Immunocytochemistry/ Immunofluorescence 1:10 - 1:500, Immunoprecipitation 10-30ul, Immunohistochemistry-Paraffin 1:1000, Knockout Validated
Application Notes	This antiserum has been tested for use in western blotting, immunoprecipitation and immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect bands approximately 150kDa by western blotting in the appropriate cell lysate or extract.



Images

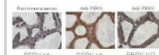
Western Blot: PERK Antibody [NBP1-78017] - PERK in cell lysates. 300ug PERK over-expressing 293T cell lysate (lanes 1 & 2), or 800ug wild type (Lanes 3 & 4), and PERK knock out (lanes 5 & 6) MEF cell lysate were immunoprecrecipitated with 15ul anti-PERK, followed by western blotting with 1:1000 dilution of anti-PERK in 5% milk/TBST buffer. Lane 1, 293T cells over-expressing Myc-PERK wt, Lane 2, 293T cells over-expressing Myc-PERK K618A. Personal Communication. A, Diehl, Univ. of Pennsylvania, Philadelphia, PA.



Immunohistochemistry: PERK Antibody [NBP1-78017] - Analysis of mouse mammary gland samples from lactating mice (L10) with anti-PERK. Positive staining signal observed in wild type mouse sample with anti-PERK staining only (middle image), but not in the knock out mouse sample (right image) and pre-immune serum staining (left image) The anti-PERK was diluted 1:1,000 in 5% goat serum in PBS and allowed to incubate for 2h at room temperature in a humidified chamber



Immunohistochemistry staining of mouse mammary gland samples from lactating mice (L10) with Immunochemical's anti-PERK. Positive staining signal observed in wild type mouse sample with anti-PERK staining only (middle image), but not in the knock out mouse sample (right image) and pre-immune serum staining (left image) The anti-PERK was diluted 1:1,000 in 5% goat serum in PBS and allowed to incubate for 2h at room temperature in a humidified chamber. Personal Communication. A, Diehl, Univ. of Pennsylvania, Philadelphia, PA.



Publications

Degan S, May BL, Jin YJ et al. Co-Treatment of Chloroquine and Trametinib Inhibits Melanoma Cell Proliferation and Decreases Immune Cell Infiltration *Frontiers in Oncology* 2022-06-30 [PMID: 35847840]

Chakraborty P, Parikh RY, Choi S et al. Carbon monoxide activates PERK-regulated autophagy to induce immunometabolic reprogramming and boost anti-tumor T cell function *Cancer research* 2022-04-11 [PMID: 35404405] (WB, Mouse)



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Products Related to NBP1-78017

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP1-80930PEP	PERK Recombinant Protein Antigen
NBL1-10177	PERK Overexpression Lysate

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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