

Product Datasheet

PERK Rabbit Polyclonal Antibody (orb214901)

Catalog Number	orb214901
Category	Antibodies
Description	The PERK Antibody is suitable for IF, IHC, IP, WB. It is a Polyclonal, Unconjugated antibody which raised against KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human PERK. The exact sequence is proprietary. Purification: The antibody was purified by immunogen affinity chromatography.
Target	EIF2AK3
Clonality	Polyclonal
Species/Host	Rabbit
Conjugation	Unconjugated
Reactivity	Human
Form/Appearance	Liquid
Buffer/Preservatives	0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purification	The antibody was purified by immunogen affinity chromatography.
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human PERK. The exact sequence is proprietary.
UniProt ID	Q9NZJ5
Tested applications	IF, IHC, IP, WB
Dilution range	WB: 1-500-1-1000, IHC-P: 1-100-1-200, IF/ICC: 1-100-1-500, IP: 1-10-1-100

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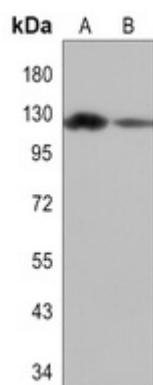
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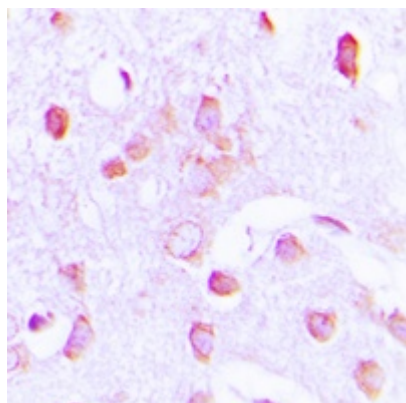
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Specificity	Recognizes endogenous levels of PERK protein.
Antibody Type	Primary Antibody
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Entrez	9451
Expiration Date	12 months from date of receipt.



Western blot analysis of PERK expression in A549 (A), HepG2 (B) whole cell lysates. (Predicted band size: 125 kD; Observed band size: 125 kD)



Immunohistochemical analysis of PERK staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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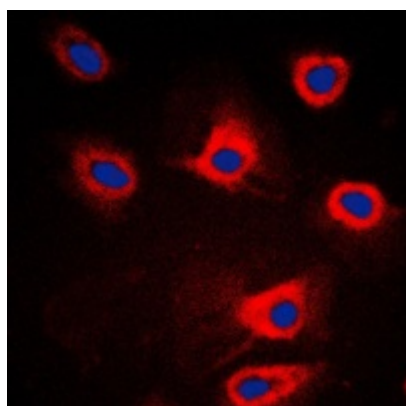
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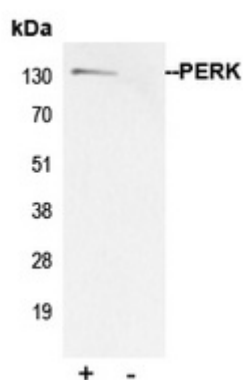
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Immunofluorescent analysis of PERK staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).



Immunoprecipitation of PERK from 0.5 mg Hela whole cell extract lysate, using 5 ug of Anti-PERK Antibody and 50 ul of protein G magnetic beads (+). No antibody was added to the control (-). The antibody was incubated under agitation with Protein G beads for 10 min, Hela whole cell extract lysate diluted in RIPA buffer was added to each sample and incubated for a further 10 min under agitation. Proteins were eluted by addition of 40 ul SDS loading buffer and incubated for 10 min at 70°C; 10 ul of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with Anti-PERK Antibody.

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