



PERK (phospho Thr981) Polyclonal Antibody

Cat #: ABP50528

Size: 30µl /100µl /200µl

Product Information

	Product Name: PERK (phospho Thr981) Polyclonal Antibody		
	Applications: WB , IF, IHC-P, ELISA		Isotype: Rabbit IgG
	Reactivity: Human, Mouse, Rat		
REF	Catalog Number: ABP50528	LOT	Lot Number: Refer to product label
	Formulation: Liquid		Concentration: 1 mg/ml
	Storage: Store at -20°C. Avoid repeated freeze / thaw cycles.		Note: Contain sodium azide.

Background: Eukaryotic translation initiation factor 2 alpha kinase 3 encoded by EIF2AK3 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. Eukaryotic translation initiation factor 2 alpha kinase 3 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 malformed proteins. Mutations in EIF2AK3 are associated with Wolcott-Rallison syndrome.

Application Notes: Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: IHC-P (1:100-1:300), ELISA (1:40000). Not yet tested in other applications.

Storage Buffer: PBS containing 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide.

Storage Instructions: Stable for one year at -20°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing.

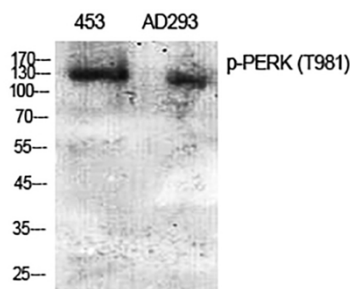


Fig.1. Western Blot analysis of 453(1), AD293(2), diluted at 1:2000.

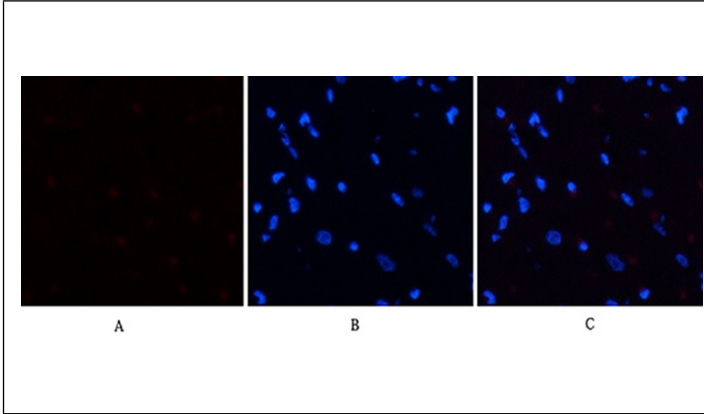


Fig.2. Immunofluorescence analysis of rat heart tissue. 1, PERK (phospho Thr981) Polyclonal Antibody (red) was diluted at 1:200 (4°C, overnight). 2, Cy3 labeled secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B.

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