

For Research Use Only

# PERK/EIF2AK3 Monoclonal antibody, PBS Only



Catalog Number: 68482-1-PBS

## Basic Information

<b>Catalog Number:</b> 68482-1-PBS	<b>GenBank Accession Number:</b> BC126354	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 9451	<b>CloneNo.:</b> 3G3F2
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q9NZJ5	
<b>Isotype:</b> IgG1	<b>Full Name:</b> eukaryotic translation initiation factor 2-alpha kinase 3	
<b>Immunogen Catalog Number:</b> AG18254	<b>Calculated MW:</b> 1116 aa, 125 kDa	
	<b>Observed MW:</b> 140 kDa	

## Applications

**Tested Applications:**  
WB, Indirect ELISA

**Species Specificity:**  
Human, mouse, rat

## Background Information

PERK, also named as EIF2AK3 or PEK, belongs to the protein kinase superfamily, Ser/Thr protein kinase family and GCN2 subfamily. It acts as a metabolic-stress sensing protein kinase that phosphorylates the alpha subunit of eukaryotic translation initiation factor 2 (EIF2S1/eIF-2-alpha) in response to various stress conditions. PERK and EIF2AK4 also have a functional role on regulating translation under non-stressed conditions, apart from their long established roles as stress kinases (PMID: 21638082). Defects in EIF2AK3 are the cause of Wolcott-Rallison syndrome (WRS). The molecular mass of PERK is 125 kDa and can be detected as 140 kDa or 170kDa due to some modifications such as glycosylation and phosphorylation (PMID: 20851775, 24371088, 21703327).

## Storage

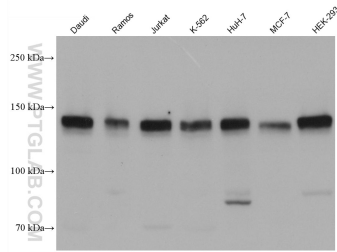
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

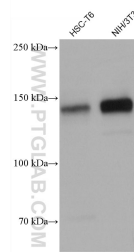
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68482-1-Ig (PERK/EIF2AK3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68482-1-PBS in a different storage buffer formulation.



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