For Research Use Only

PERK/EIF2AK3 Monoclonal antibody

Catalog Number:68482-1-lg 2 Publications

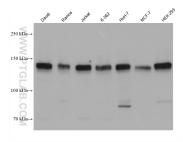
Antibodies | ELISA kits | Proteins www.ptglab.com

	Catalog Number: 68482-1-lg	GenBank Accession Number: BC 126354	Purification Method:	
	Size:	GenelD (NCBI):	Protein G purification CloneNo.:	
	1000 µg/ml	9451	3G3F2	
	Source: Mouse	UNIPROT ID: Q9NZJ5	Recommended Dilutions: WB 1:5000-1:50000	
	Isotype: IgG1 Immunogen Catalog Number: AG18254	Full Name: eukaryotic translation initiation factor 2-alpha kinase 3		
		Calculated MW: 1116 aa, 125 kDa		
		Observed MW: 140 kDa		
Applications	Tested Applications:	Positive C	Positive Controls: WB : Daudi cells, HSC-T6 cells, Ramos cells, Jurkat cells, K-562 cells, HuH-7 cells, MCF-7 cells, HEK-293 cells, NIH/3T3 cells	
	WB, ELISA Cited Applications: WB	cells, K-56		
	Species Specificity: Human, mouse, rat			
	Cited Species: human, pig			
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 (EIF251/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).			
Notable Publications	Author	Pubmed ID Journal	Application	
Notable Publications		Pubmed ID Journal 39653741 Cancer Gene The	Application WB	

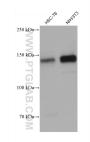
For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68482-1-lg (PERK/EIF2AK3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 68482-1-1g (PERK/EIF2AK3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.