For Research Use Only

CoraLite®594-conjugated Phospho-PERK/EIF2AK3 (Thr982) Recombinant antibody



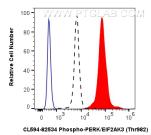
Catalog Number:CL594-82534

Basic Information	Catalog Number: CL594-82534	GenBank Accession Number: BC 126354	Purification Method: Protein A purification	
	Concentration: 1000 ug/ml	GenelD (NCBI): 9451	CloneNo.: 4E16	
	Source: Rabbit	UNIPROT ID: Q9NZJ5	Excitation/Emission maxima wavelengths: 588 nm / 604 nm	
	Isotype: IgG	Full Name: eukaryotic translation initiation factor 2-alpha kinase 3		
		Calculated MW: 1116 aa, 125 kDa		
		Observed MW: 180 kDa		
Applications	Tested Applications: FC (Intra) Species Specificity:			
	human, mouse			
Background Informatic	(UPR) in response to ER stres glucose-regulated protein (C autophosphorylation. Phosp alpha (eif2 a), to attenuate g	EIF2AK3 encodes the protein kinase RNA-like ER kinase (PERK), a key regulator of the unfolded protein response (UPR) in response to ER stress. Under ER stress conditions, activation of PERK is triggered by the dissociation of glucose-regulated protein (GRP) 78 (also known as BiP) from its luminal domain, followed by oligomerization and autophosphorylation. Phosphorylated PERK subsequently phosphorylates eukaryotic translation initiation factor 2 alpha (eif2 a), to attenuate global protein translation and reduce incoming ER protein load via upregulated ER chaperone expression. (PMID: 35922637, PMID: 32029570)		
Storage	Storage Buffer:	rre to light. Stable for one year after shipme % Proclin300, 0.5% BSA, pH7.3 yr -20 [°] C storage	nt.	

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

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Selected Validation Data



1X10^6 HEK-293 cells untreated (dashed lines) or treated with Calyculin A which intracellularly stained with 0.25 ug Coralite®594 Phospho-PERK/Eif2ak3 (Thr982) Recombinant Antibody (CL594-82534, Clone: 4E16)(red), or 0.25 ug Coralite®594 Rabbit IgG Isotype Control RecAb (CL594-98136, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.