

For Research Use Only

PERK/EIF2AK3 Recombinant monoclonal antibody, PBS Only

Catalog Number: 88220-2-PBS



Basic Information

Catalog Number: 88220-2-PBS	GenBank Accession Number: BC126354	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 9451	CloneNo.: 260327C7
Source: Rabbit	UNIPROT ID: Q9NZJ5	
Isotype: IgG	Full Name: eukaryotic translation initiation factor 2-alpha kinase 3	
Immunogen Catalog Number: AG18254	Calculated MW: 1116 aa, 125 kDa	
	Observed MW: 140 kDa	

Applications

Tested Applications:
WB, IP, Indirect ELISA

Species Specificity:
human

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 potentially as a metabolic sensor in the INS-secreting beta-cells to modulate the trafficking and quality control of pro-INS in the ER relative to the physiological demands for circulating INS (PMID:20530744). 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 170 kDa due to some modifications such as glycosylation and phosphorylation (PMID: 20851775, 24371088, 21703327).

Storage

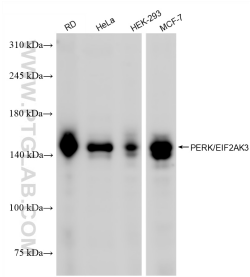
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

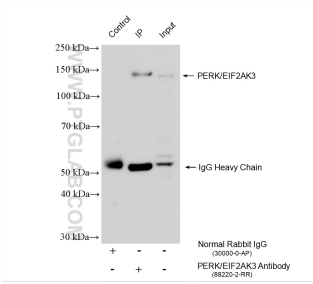
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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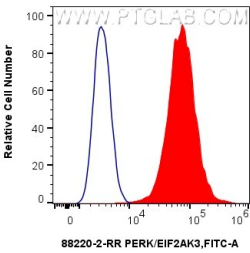
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 88220-2-RR (PERK/EIF2AK3 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 88220-2-PBS in a different storage buffer formulation.



IP result of anti-PERK/EIF2AK3 (IP:88220-2-RR, 4ug; Detection:88220-2-RR 1:800) with HeLa cells lysate 1200 ug. This data was developed using the same antibody clone with 88220-2-PBS in a different storage buffer formulation.



1x10⁶ HeLa cells were intracellularly stained with 0.25 ug PERK/EIF2AK3 Recombinant monoclonal antibody (88220-2-RR, Clone:260327C7) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019). This data was developed using the same antibody clone with 88220-2-PBS in a

