## Phospho-PDH E1 Alpha (Ser232) Recombinant antibody, PBS Only

Antibodies | ELISA kits | Proteins WWW.ptglab.com

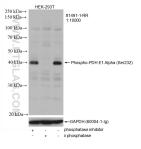
Catalog Number:81491-1-PBS

Basic Information	Catalog Number: 81491-1-PBS	GenBank Accession Number: BC002406	Purification Method: Protein A purification	
	Size: 1 mg/ml	GenelD (NCBI): 5160	CloneNo.: 1L22	
	Source: Rabbit	UNIPROT ID: P08559		
	lsotype: IgG	Full Name: pyruvate dehydrogenase (lipoamide) alpha 1		
		Calculated MW: 43 kDa		
		Observed MW: 40 kDa		
Applications	Tested Applications: WB,Indirect ELISA			
	Species Specificity: Human			
Background Information	contains three serine residue family of four inhibitory pyru Hypoxia induces the express inactivates the whole pyruva (TCA) cycle for oxidative pho	PDH E1 Alpha (PDHA1), as the major component of PDH, can be phosphorylated and inactivated by PDHK1. PDHA1 contains three serine residues (Ser232, Ser293, or Ser300) that can be reversibly phosphorylated by a dedicated family of four inhibitory pyruvate dehydrogenase kinases (PDHK1-4) and two reactivating phosphatases (PDP1, 2). Hypoxia induces the expression of PDHK1 and PDHK3 and hyperphosphorylates PDHA1. Phosphorylated PDHA1 inactivates the whole pyruvate dehydrogenase complex (PDC), reduces pyruvate entering into the tricarboxylic acid (TCA) cycle for oxidative phosphorylation, enhances the Warburg effect and promotes tumorigenesis. (PMID: 30993888, PMID: 34749809)		
Storage	Storage: Store at -80°C. Storage Buffer: PBS Only			

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



Non-treated HEK-293T cells, phosphatase inhibitor treated and  $\lambda$  phosphatase HEK-293T cells were subjected to SDS PAGE followed by western blot with 81491-1-RR (Phospho-PDH E1 Alpha (Ser232) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control. This data was developed using the same antibody clone with 81491-1-PBS in a different storage buffer formulation. ▼