For Research Use Only

## PGAM5 Monoclonal antibody

Catalog Number:68116-1-lg 1 Publications

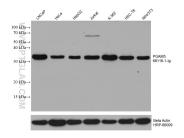


Basic Information	Catalog Number: 68116-1-lg	GenBank Accession Number BC008196	r: Purification Method: Protein G purification	
	Size:	GeneID (NCBI):	CloneNo.:	
	1000 µg/ml	192111	1C8B9	
	Source: Mouse	UNIPROT ID: Q96HS1	Recommended Dilutions: WB 1:5000-1:50000	
	Isotype: IgG1 Immunogen Catalog Number: AG28195	Full Name: IHC 1:1000-1:4000 phosphoglycerate mutase family member 5		
		Calculated MW: 32 kDa		
		Observed MW: 32 kDa		
Applications	Tested Applications:	Posi	Positive Controls:	
	IHC, WB, ELISA Cited Applications: WB, IF	WB : LNCaP cells, rabbit brain tissue, pig brain tissu HeLa cells, HepG2 cells, Jurkat cells, K-562 cells, HS T6 cells, NIH/3T3 cells		
	Species Specificity: Human, Mouse, Rat, Pig, Rabbit	IHC : human liver cancer tissue, human lung cancer tissue		
	Cited Species: rat			
	Note-IHC: suggested antiger TE buffer pH 9.0; (*) Alterno retrieval may be performed buffer pH 6.0	atively, antigen		
	Phosphoglycerate mutase 5 (PGAM5) is a mitochondrial Serine (Ser)/Threonine (Thr) phosphatase normally located in the inner mitochondrial membrane. Upon mitochondrial dysfunction, PGAM5 recruits and dephosphorylates Drp1 at Ser-637, triggers its GTPase activity and promotes mitochondrial fission. PGAM5 regulates mitophagy by stabilizing PINK1 under stress conditions, which recruits E3 ubiquitin ligase PARKIN for degradation of the damaged mitochondria. PGAM5 can be cleaved and released to the cytoplasm through PARKIN, which activates Wnt signaling and induces mitochondrial biogenesis (PMID: 32439975). PGAM5 has 2 isoforms with the molecular mass of 28 and 32 kDa.			
Background Information	at Ser-637, triggers its GTPase acti stabilizing PINK1 under stress con mitochondria. PGAM5 can be cleav and induces mitochondrial biogen	ivity and promotes mitochondria ditions, which recruits E3 ubiqui ved and released to the cytoplas	al fission. PGAM5 regulates mitophagy by tin ligase PARKIN for degradation of the damaged m through PARKIN, which activates Wnt signaling	
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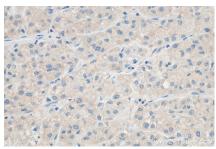
For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

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## Selected Validation Data







Various lysates were subjected to SDS PAGE followed by western blot with 68116-1-Ig (PGAM5 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.

Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 68116-1-1g (PGAM5 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 68116-1-1g (PGAM5 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).