

For Research Use Only

PGAM5 Monoclonal antibody, PBS Only



Catalog Number: 68116-1-PBS

Basic Information

Catalog Number: 68116-1-PBS	GenBank Accession Number: BC008196	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 192111	CloneNo.: 1C8B9
Source: Mouse	UNIPROT ID: Q96HS1	
Isotype: IgG1	Full Name: phosphoglycerate mutase family member 5	
Immunogen Catalog Number: AG28195	Calculated MW: 32 kDa	
	Observed MW: 32 kDa	

Applications

Tested Applications:
WB, IHC, ELISA

Species Specificity:
Human, Mouse, Rat, Pig, Rabbit

Background Information

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.

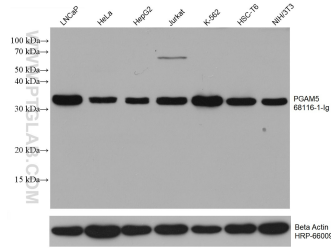
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only

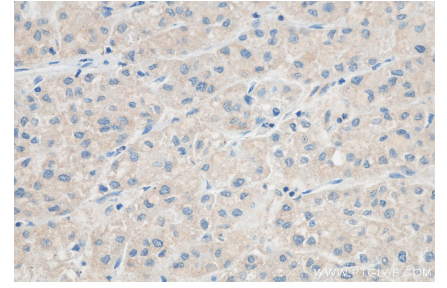
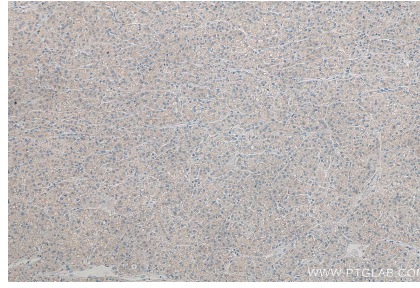
For technical support and original validation data for this product please contact:
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Selected Validation Data



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. This data was developed using the same antibody clone with 68116-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 68116-1-Ig (PGAM5 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68116-1-PBS in a different storage buffer formulation.

Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 68116-1-Ig (PGAM5 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68116-1-PBS in a different storage buffer formulation.