

## Allgemeine Informationen

<b>Katalog-Nr.:</b> 68116-1-Ig	<b>GenBank-Zugangsnummer:</b> BC008196	<b>Reinigungsmethode:</b> Protein-G-Reinigung
<b>Größe:</b> 150ul, Konzentration: 1000 µg/ml von192111 Nanodrop;	<b>GeneID (NCBI):</b> 192111	<b>CloneNo.:</b> 1C8B9
<b>Wirt:</b> Maus	<b>Vollständiger Name:</b> phosphoglycerate mutase family member 5	<b>Empfohlene Verdünnungen:</b> WB 1:5000-1:50000 IHC 1:1000-1:4000
<b>Isotyp:</b> IgG1	<b>Berechnete Masse:</b> 32 kDa	
<b>Immunogen Katalognummer:</b> AG28195	<b>Beobachtete Masse:</b> 32 kDa	

## Anwendungen

### Geprüfte Anwendungen:

IHC, WB, ELISA

### Getestete Reaktivität:

Hausschwein, Human, Kaninchen, Maus, Ratte

**Hinweis-IHC: Antigenmaskierung mit TE-Puffer pH 9,0 empfohlen. (\*) Wahlweise kann die Antigenmaskierung auch mit Citratpuffer pH 6,0 erfolgen.**

### Positivkontrollen:

**WB** : LNCaP-Zellen, Hausschwein-Hirngewebe, HeLa-Zellen, HepG2-Zellen, Jurkat-Zellen, K-562-Zellen, Kaninchenhirngewebe, NIH/3T3-Zellen

**IHC** : humanes Leberkarzinomgewebe, humanes Lungenkarzinomgewebe

## Hintergrundinformationen

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.

## Lagerung

### Lagerungsbedingungen:

Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

### Lagerungspuffer:

PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

Aliquotieren ist nicht notwendig bei -20°C Lagerung

\*\*\* 20ul-Größen enthalten 0.1% BSA

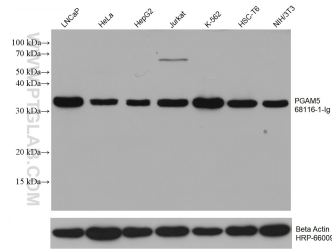
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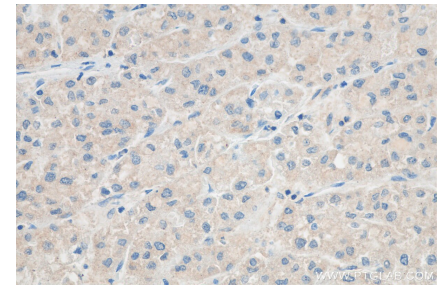
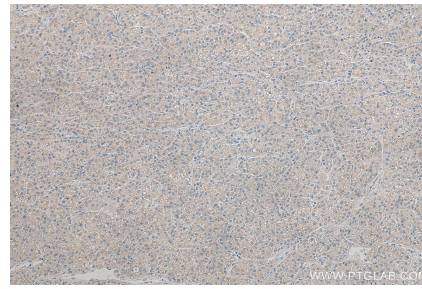
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## Ausgewählte Validierungsdaten



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 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).