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**Product Name: Glucose-6-phosphate isomerase Mouse Monoclonal Antibody****Catalog #: AMM80641**

For research use only.

**Summary**

<b>Description</b>	Mouse monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	IHC,ICC,ELISA
<b>Reactivity</b>	Human
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	Mouse IgG1
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Purified antibody in PBS with 0.05% sodium azide.
<b>Purification</b>	Affinity Purification

**Application**

<b>Dilution Ratio</b>	IHC 1:200-1:1000,ICC 1:200-1:1000,ELISA 1:5000-1:20000
<b>Molecular Weight</b>	63kDa

**Antigen Information**

<b>Gene Name</b>	Glucose-6-phosphate isomerase
<b>Alternative Names</b>	AMF; NLK; PGI; PHI; GNPI; SA-36; GPI
<b>Gene ID</b>	2821.0
<b>SwissProt ID</b>	P06744
<b>Immunogen</b>	Purified recombinant fragment of human GPI expressed in E. Coli.

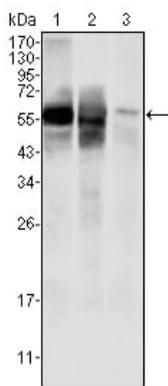
**Background**

Glucose-6-phosphate isomerase, or phosphoglucose isomerase, also known as GPI. It belongs to the GPI family whose members encode multifunctional phosphoglucose isomerase proteins involved in energy pathways and it is an enzyme that catalyzes the conversion of glucose-6-phosphate into fructose 6-phosphate in the second step of glycolysis. The protein

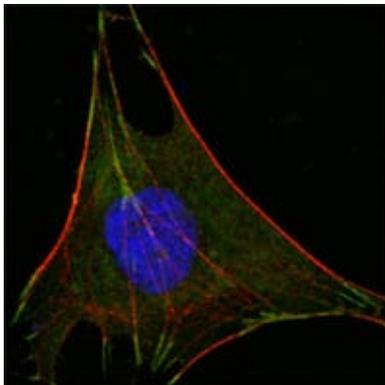
functions in different capacities inside and outside the cell. In the cytoplasm, the gene product is involved in glycolysis and gluconeogenesis, while outside the cell it functions as a neurotrophic factor for spinal and sensory neurons. Defects in GPI are the cause of nonspherocytic hemolytic anemia and a severe enzyme deficiency can be associated with hydrops fetalis, immediate neonatal death and neurological impairment.

## Research Area

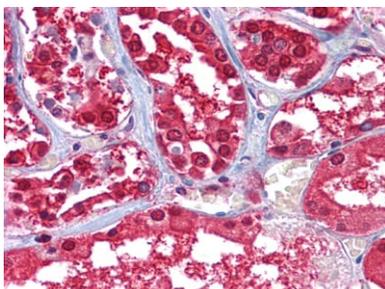
## Image Data



Western blot analysis using GPI mouse mAb against HepG2 (1) , SMMC-7721 (2) cell lysate and rat liver tissues lysate (3).



Confocal Immunofluorescence analysis of L-02 cells using GPI mouse mAb (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.



Immunohistochemical analysis of paraffin-embedded human Kidney tissues using GPI mouse mAb.