

## Product datasheet for **AM06224SU-N**

### Glucose 6 phosphate isomerase (GPI) Mouse Monoclonal Antibody [Clone ID: 1B7D7]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	1B7D7
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	<b>ELISA:</b> 1/10000. <b>Western Blot:</b> 1/500 - 1/2000. <b>Immunofluorescence:</b> 1/200 - 1/1000. <b>Immunohistochemistry on Paraffin Sections:</b> 1/200 - 1/1000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of human GPI expressed in E. Coli.
Specificity:	Recognizes Glucose-6-phosphate isomerase
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% Sodium Azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	glucose-6-phosphate isomerase
Database Link:	<a href="#">Entrez Gene 2821 Human P06744</a>



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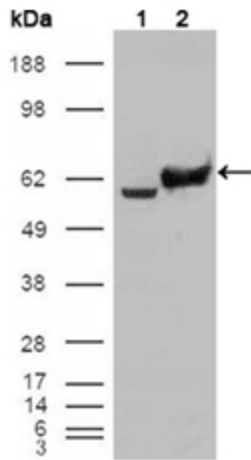
**Background:**

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.

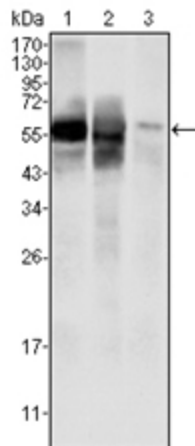
**Synonyms:**

Phosphoglucose isomerase, PGI, Phosphohexose isomerase, PHI, Neuroleukin, NLK

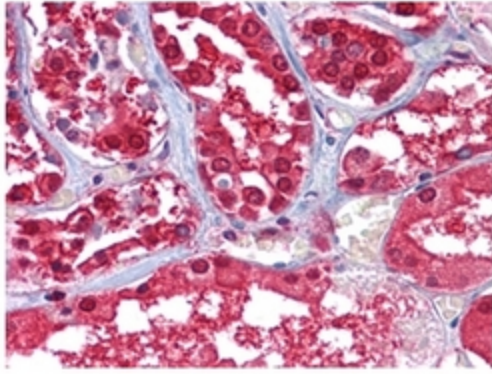
**Product images:**



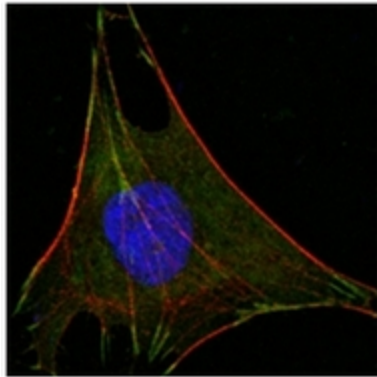
Western blot analysis using GPI antibody Cat.-No AM06224SU-N against HEK293T cells transfected with the pCMV6-ENTRY control (Lane 1) and pCMV6-ENTRY GPI cDNA (Lane 2).



Western blot analysis using GPI antibody Cat.-No AM06224SU-N against HepG2 (Lane 1), SMMC-7721 (Lane 2) cell lysate and rat liver tissues lysate (Lane 3).



Immunohistochemical analysis of paraffin-embedded human Kidney tissues using GPI antibody Cat.-No AM06224SU-N



Confocal immunofluorescence analysis of L-02 cells using GPI antibody Cat.-No AM06224SU-N (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.