

**GPI Antibody (clone 1B7D7)**  
**Mouse Monoclonal Antibody**  
**Catalog # ALS13147****Specification**

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**GPI Antibody (clone 1B7D7) - Product Information**

Application	<b>WB, IF</b>
Primary Accession	<a href="#">P06744</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Calculated MW	<b>63kDa KDa</b>

**GPI Antibody (clone 1B7D7) - Additional Information****Gene ID** 2821**Other Names**

Glucose-6-phosphate isomerase, GPI, 5.3.1.9, Autocrine motility factor, AMF, Neuroleukin, NLK, Phosphoglucose isomerase, PGI, Phosphohexose isomerase, PHI, Sperm antigen 36, SA-36, GPI

**Target/Specificity**

Human GPI

**Reconstitution & Storage**

Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

**Precautions**

GPI Antibody (clone 1B7D7) is for research use only and not for use in diagnostic or therapeutic procedures.

**GPI Antibody (clone 1B7D7) - Protein Information****Name** GPI {ECO:0000303|PubMed:2387591, ECO:0000312|HGNC:HGNC:4458}**Function**

In the cytoplasm, catalyzes the conversion of glucose-6-phosphate to fructose-6-phosphate, the second step in glycolysis, and the reverse reaction during gluconeogenesis (PubMed:<a href="http://www.uniprot.org/citations/28803808" target="\_blank">28803808</a>). Besides its role as a glycolytic enzyme, also acts as a secreted cytokine: acts as an angiogenic factor (AMF) that stimulates endothelial cell motility (PubMed:<a href="http://www.uniprot.org/citations/11437381" target="\_blank">11437381</a>). Acts as a neurotrophic factor, neuroleukin, for spinal and sensory neurons (PubMed:<a href="http://www.uniprot.org/citations/11004567" target="\_blank">11004567</a>, PubMed:<a href="http://www.uniprot.org/citations/3352745" target="\_blank">3352745</a>). It is secreted by lectin-stimulated T-cells and induces immunoglobulin secretion (PubMed:<a href="http://www.uniprot.org/citations/11004567" target="\_blank">11004567</a>, PubMed:<a href="http://www.uniprot.org/citations/3352745" target="\_blank">3352745</a>).

**Cellular Location**  
Cytoplasm. Secreted

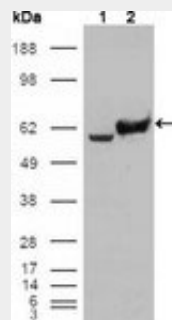
**Volume**  
50  $\mu$ l

### GPI Antibody (clone 1B7D7) - Protocols

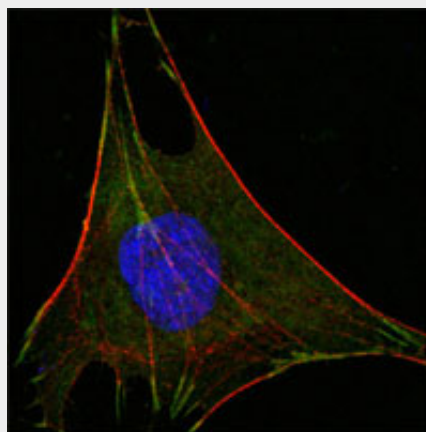
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

### GPI Antibody (clone 1B7D7) - Images



Western blot using GPI mouse monoclonal antibody against HEK293T cells transfected with the...



Confocal immunofluorescence of L-02 cells using GPI mouse monoclonal antibody (green).

### GPI Antibody (clone 1B7D7) - Background

Besides its role as a glycolytic enzyme, mammalian GPI can function as a tumor-secreted cytokine and an angiogenic factor (AMF) that stimulates endothelial cell motility. GPI is also a neurotrophic factor (Neuroleukin) for spinal and sensory neurons.

**GPI Antibody (clone 1B7D7) - References**

- Gurney M.E., et al. Submitted (MAR-1987) to the EMBL/GenBank/DDBJ databases.  
Yakirevich E., et al. Biol. Reprod. 62:1016-1023(2000).  
Ota T., et al. Nat. Genet. 36:40-45(2004).  
Grimwood J., et al. Nature 428:529-535(2004).  
Walker J.I.H., et al. Genomics 7:638-643(1990).