

## Mouse Monoclonal Antibody to Glucose-6-phosphate isomerase

<b>Catalogue Number</b>	sAP-0165
<b>Target Molecule</b>	<b>Name: Glucose-6-phosphate isomerase</b> <b>Aliases:</b> AMF; NLK; PGI; PHI; GNPI; SA-36; GPI <b>MW: 63kDa</b> <b>Entrez Gene ID: 2821</b>
<b>Description</b>	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.
<b>Immunogen</b>	Purified recombinant fragment of human GPI expressed in E. Coli.
<b>Recitative Species</b>	Human
<b>Clone</b>	MM1B7D7;
<b>Size and Concentration</b>	100µg/1mg/ml
<b>Supplied as</b>	Lyophilized Powder from 100µl of Ascitic fluid containing 0.03% sodium azide.
<b>Reconstitution/Storages</b>	Reconstituted with 100µl sterile DI H <sub>2</sub> O, at stored at 4°C or -20°C for short or long term storage
<b>Applications</b>	ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; IHC: 1 to 200 - 1 to 1000; ICC: 1 to 200 - 1 to 1000
<b>Shipping</b>	Regular FEDEX overnight shipment (ambient temperature)
<b>Reference</b>	1. Biochem Biophys Res Commun. 2004 Oct 15;323(2):518-22. ; 2. Biochem Biophys Res Commun. 2006 Oct 20;349(2):838-45. ; 3. Hum Mutat. 2006 Nov;27(11):1159. ; 4. Leuk Lymphoma. 2006 Oct;47(10):2234-43.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**