

#### OriGene Technologies, Inc.

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### Product datasheet for TA501128BM

# Glucose 6 phosphate isomerase (GPI) Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OTI4B11]

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	OTI4B11
Applications:	IF, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:50, IF 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
lsotype:	lgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human GPI(NP_000166) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	HRP
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	63 kDa
Gene Name:	glucose-6-phosphate isomerase
Database Link:	<u>NP_000166</u> <u>Entrez Gene 292804 RatEntrez Gene 2821 Human</u> <u>P06744</u>



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	Glucose 6 phosphate isomerase (GPI) Mouse Monoclonal Antibody (HRP conjugated) [Clone ID:
	OTI4B11] – TA501128BM

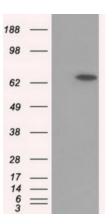
Background:	This gene belongs to the GPI family whose members encode multifunctional phosphoglucose isomerase proteins involved in energy pathways. The protein encoded by this gene is a dimeric enzyme that catalyzes the reversible isomerization of glucose-6-phosphate and fructose-6-phosphate. The protein 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 this gene 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:	AMF; GNPI; NLK; PGI; PHI; SA-36; SA36
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Protein Families:

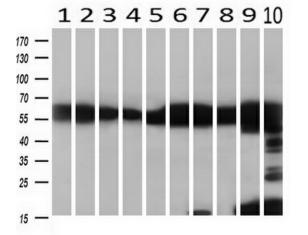
Druggable Genome

Protein Pathways:Amino sugar and nucleotide sugar metabolism, Glycolysis / Gluconeogenesis, Metabolic<br/>pathways, Pentose phosphate pathway, Starch and sucrose metabolism

#### **Product images:**



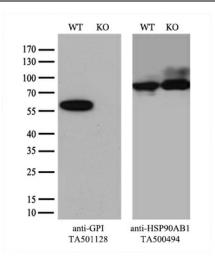
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY GPI ([RC201232], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GPI. Positive lysates [LY400066] (100ug) and [LC400066] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (10ug) from 10 Human tissue by using anti-GPI monoclonal antibody at 1:500 (1: Testis; 2: Omentum; 3: Uterus; 4: Breast; 5: Brain; 6: Liver; 7: Ovary; 8: Thyroid gland; 9: colon;10: spleen).

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Equivalent amounts of cell lysates (10 ug per lane) of wild-type 293T cells (WT, Cat# LC810293T) and GPI-Knockout 293T cells (KO, Cat# [LC840273] ) were separated by SDS-PAGE and immunoblotted with anti-GPI monoclonal antibody [TA501128] (1:2000`). Then the blotted membrane was stripped and reprobed with anti-HSP90 antibody as a loading control.

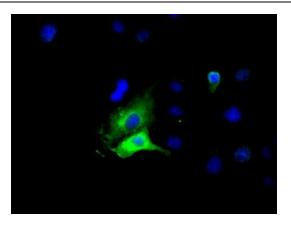
Immunohistochemical staining of paraffinembedded Kidney tissue within the normal limits using anti-GPI mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501128], Dilution 1:50)

Immunohistochemical staining of paraffinembedded pancreas tissue within the normal limits using anti-GPI mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501128], Dilution 1:50)





## Glucose 6 phosphate isomerase (GPI) Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OTI4B11] – TA501128BM



Anti-GPI mouse monoclonal antibody ([TA501128]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY GPI ([RC201232]).

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