

OriGene Technologies, Inc.

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Product datasheet for CF501136

Glucose 6 phosphate isomerase (GPI) Mouse Monoclonal Antibody [Clone ID: OTI7G10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI7G10
Applications:	IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:50
Reactivity:	Human, Mouse, Rat
Host:	Mouse
lsotype:	lgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human GPI(NP_000166) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
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 [Clone ID: OTI7G10] – CF501136
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
Protein Families	: Druggable Genome
Protein Pathway	s: Amino sugar and nucleotide sugar metabolism, Glycolysis / Gluconeogenesis, Metabolic 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.



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 [TA501136] (1:500[°]). Then the blotted membrane was stripped and reprobed with anti-HSP90 antibody as a loading control.

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Immunohistochemical staining of paraffinembedded Kidney tissue within the normal limits using anti-GPI mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

Immunohistochemical staining of paraffinembedded liver tissue within the normal limits using anti-GPI mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

Immunohistochemical staining of paraffinembedded Adenocarcinoma of ovary tissue using anti-GPI mouse monoclonal antibody. Heatinduced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

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Immunohistochemical staining of paraffinembedded pancreas tissue within the normal limits using anti-GPI mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

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