

**Anti-Glucose 6 phosphate isomerase Rabbit Monoclonal Antibody**  
**Catalog # ABO15281****Specification****Anti-Glucose 6 phosphate isomerase Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC, IF, ICC, FC
Primary Accession	<a href="#">P06744</a>
Host	Rabbit
Isotype	IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-Glucose 6 phosphate isomerase Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, Flow Cytometry applications. This antibody reacts with Human.

**Anti-Glucose 6 phosphate isomerase Rabbit Monoclonal Antibody - 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 {ECO:0000303|PubMed:2387591, ECO:0000312|HGNC:HGNC:4458}

**Calculated MW**

63 kDa KDa

**Application Details**

WB 1:500-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200<br>FC 1:50

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human Glucose 6 phosphate isomerase

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

**Anti-Glucose 6 phosphate isomerase Rabbit Monoclonal Antibody - Protein Information**

**Name** GPI {ECO:0000303|PubMed:2387591, ECO:0000312|HGNC:HGNC:4458}

### Function

Isomerase that catalyzes the conversion of alpha-D-glucose-6- phosphate to beta-D-fructose-6-phosphate, the second step in glycolysis, and the reverse reaction in gluconeogenesis, within the cytoplasm (PubMed:<a href="http://www.uniprot.org/citations/28803808" target="\_blank">28803808</a>). Also shows C2-epimerase activity, interconverting D-glucose-6-phosphate (G6P) and D-mannose-6-phosphate (M6P) (By similarity). Also displays anomerase activity, interconverting alpha and beta-anomeric forms of G6P, D-fructose-6- phosphate and M6P (By similarity). In addition to its metabolic role, this enzyme functions extracellularly as a cytokine: acts as autocrine motility factor (AMF), a secreted angiogenic factor that enhances endothelial cell motility (PubMed:<a href="http://www.uniprot.org/citations/11437381" target="\_blank">11437381</a>). Functions as neuroleukin, a neurotrophic factor supporting the survival of 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>). Released by lectin- stimulated T-cells to induce 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

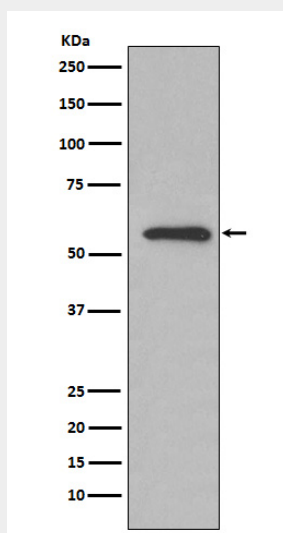
Cytoplasm. Secreted

## Anti-Glucose 6 phosphate isomerase Rabbit Monoclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-Glucose 6 phosphate isomerase Rabbit Monoclonal Antibody - Images



Western blot analysis of Glucose 6 phosphate isomerase expression in HeLa cell lysate.