

# Mouse Gpi Antibody(C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP19643b

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">P06745</a>
<b>Other Accession</b>	<a href="#">NP_032181.2</a>
<b>Reactivity</b>	Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB40723
<b>Calculated MW</b>	62767
<b>Antigen Region</b>	532-558

## Additional Information

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<b>Gene ID</b>	14751
<b>Other Names</b>	Glucose-6-phosphate isomerase, GPI, Autocrine motility factor, AMF, Neuroleukin, NLK, Phosphoglucose isomerase, PGI, Phosphohexose isomerase, PHI, Gpi, Gpi1
<b>Target/Specificity</b>	This Mouse Gpi antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 532-558 amino acids from the C-terminal region of mouse Gpi.
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	Mouse Gpi Antibody(C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	Gpi {ECO:0000303 PubMed:7545951}
<b>Function</b>	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:[2344351](#), PubMed:[7277315](#), PubMed:[8417789](#)). Besides its role as a glycolytic enzyme, also acts as a secreted cytokine: acts as an angiogenic factor (AMF) that stimulates endothelial cell motility (By similarity). Acts as a neurotrophic factor, neuroleukin, for spinal and sensory neurons (PubMed:[3352745](#), PubMed:[3764429](#)). It is secreted by lectin-stimulated T-cells and induces immunoglobulin secretion (PubMed:[3352745](#)).

#### Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:P06744}. Secreted {ECO:0000250|UniProtKB:P06744}

## Background

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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.

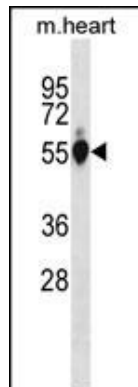
## References

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Szuber, N., et al. Exp. Hematol. 36(7):773-785(2008)  
Chandele, A., et al. J. Immunol. 180(8):5309-5319(2008)  
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## Images

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Mouse Gpi Antibody (C-term) (Cat. #AP19643b) western blot analysis in mouse heart tissue lysates (35ug/lane). This demonstrates the Mouse Gpi antibody detected the Mouse Gpi protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.