

Mouse Gpi Antibody(C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5542

Product Information

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|--------------------------|------------------------|
| Application | WB |
| Primary Accession | P06745 |
| Reactivity | Mouse |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 62767 |
| Isotype | Rabbit IgG |
| Antigen Source | HUMAN |

Additional Information

| | |
|---------------------------|--|
| Gene ID | 14751 |
| Antigen Region | 532-558 |
| Other Names | Glucose-6-phosphate isomerase, GPI, Autocrine motility factor, AMF, Neuroleukin, NLK, Phosphoglucose isomerase, PGI, Phosphohexose isomerase, PHI, Gpi, Gpi1 |
| Dilution | WB~~1:1000 |
| Target/Specificity | 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. |
| Format | 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. |
| Storage | 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. |
| Precautions | 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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|-----------------|--|
| Name | Gpi {ECO:0000303 PubMed:7545951} |
| 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:[2344351](#), PubMed:[7277315](#), PubMed:[8417789](#)). 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 (By similarity). Functions as neuroleukin, a neurotrophic factor supporting the survival of spinal and sensory neurons (PubMed:[3352745](#), PubMed:[3764429](#)). Released by lectin-stimulated T-cells to induce immunoglobulin secretion (PubMed:[3352745](#)).

Cellular Location

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

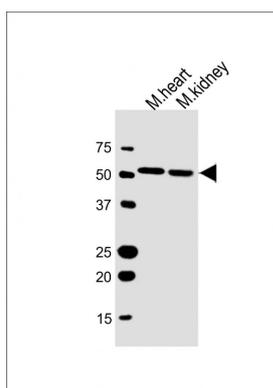
Background

Besides it's 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

- Benveniste, P., et al. Cell Stem Cell 6(1):48-58(2010)
Repiso, A., et al. Anat Histol Embryol 37(5):380-382(2008)
Szuber, N., et al. Exp. Hematol. 36(7):773-785(2008)
Chandele, A., et al. J. Immunol. 180(8):5309-5319(2008)
Cuda, C.M., et al. J. Immunol. 179(11):7439-7447(2007)

Images



All lanes : Anti-Gpi Antibody (C-term) at 1:1000 dilution
Lane 1: mouse heart lysate Lane 2: mouse kidney lysate
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 63 kDa Blocking/Dilution buffer: 5% NFDN/TBST.

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