

Mouse Gpi Antibody(C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP19643b

Specification

Mouse Gpi Antibody(C-term) - Product Information

Application WB,E **Primary Accession** P06745 Other Accession NP 032181.2 Reactivity Mouse Host **Rabbit** Clonality **Polyclonal** Isotype Rabbit IgG Calculated MW 62767 Antigen Region 532-558

Mouse Gpi Antibody(C-term) - Additional Information

Gene ID 14751

Other Names

Glucose-6-phosphate isomerase, GPI, Autocrine motility factor, AMF, Neuroleukin, NLK, Phosphoglucose isomerase, PGI, Phosphohexose isomerase, PHI, Gpi, Gpi1

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.

Dilution

WB~~1:1000

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.

Mouse Gpi Antibody(C-term) - Protein Information

Name Gpi {ECO:0000303|PubMed:7545951}

Function 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:<u>2344351</u>, PubMed:<u>7277315</u>, PubMed:<u>8417789</u>). Besides it's 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:<u>3352745</u>, PubMed:<u>3764429</u>). It is secreted by lectin-stimulated T-cells and induces immunoglobulin secretion (PubMed:<u>3352745</u>).

Cellular Location

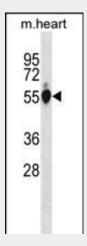
Cytoplasm {ECO:0000250|UniProtKB:P06744}. Secreted {ECO:0000250|UniProtKB:P06744}

Mouse Gpi Antibody(C-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Mouse Gpi Antibody(C-term) - Images



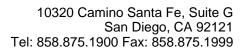
Mouse Gpi Antibody (C-term) (Cat. #AP19643b) western blot analysis in mouse heart tissue lysates (35ug/lane). This demonstrates the Mouse Gpi antibody detected the Mouse Gpi protein (arrow).

Mouse Gpi Antibody(C-term) - 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.

Mouse Gpi Antibody(C-term) - 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)