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Mouse Gpi Antibody(C-term) Blocking peptide

Synthetic peptide
Catalog # BP19643b

Specification

Mouse Gpi Antibody(C-term) Blocking peptide - Product Information

Primary Accession P06745

Mouse Gpi Antibody(C-term) Blocking peptide - 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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Mouse Gpi Antibody(C-term) Blocking peptide - 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:7277315, PubMed:2344351, PubMed:8417789). 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:3764429, PubMed:3352745). 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}

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Mouse Gpi Antibody(C-term) Blocking peptide - Protocols

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

- Blocking Peptides

Mouse Gpi Antibody(C-term) Blocking peptide - Images

Mouse Gpi Antibody(C-term) Blocking peptide - 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) Blocking peptide - 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)