

GPI Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP9786b

Product Information

Application FC, WB, E
Primary Accession P06744
Other Accession Q4R591

Reactivity Human, Rat, Mouse

Predicted Monkey
Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Clone Names RB24626
Antigen Region 445-473

Additional Information

Other Names Glucose-6-phosphate isomerase, GPI, Autocrine motility factor, AMF,

Neuroleukin, NLK, Phosphoglucose isomerase, PGI, Phosphohexose

isomerase, PHI, Sperm antigen 36, SA-36, GPI

Target/Specificity This GPI antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 445-473 amino acids from the

C-terminal region of human GPI.

Dilution FC~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.

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 GPI Antibody (C-term) is for research use only and not for use in diagnostic or

therapeutic procedures.

Protein Information

Background

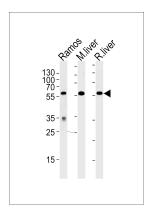
GPI belongs to the GPI family whose members encode multifunctional phosphoglucose isomerase proteins involved in energy pathways. The protein encoded by this gene is a dimeric enzyme that catalyzes the reversible isomerization of glucose-6-phosphate and fructose-6-phosphate. The protein functions in

different capacities inside and outside the cell. In the cytoplasm, the gene product is involved in glycolysis and gluconeogenesis, while outside the cell it functions as a neurotrophic factor for spinal and sensory neurons. Defects in this gene are the cause of nonspherocytic hemolytic anemia and a severe enzyme deficiency can be associated with hydrops fetalis, immediate neonatal death and neurological impairment.

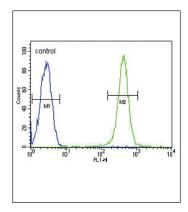
References

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Funasaka, T., et al. Cancer Res. 69(13):5349-5356(2009)
Yanagawa, T., et al. J. Biol. Chem. 280(11):10419-10426(2005)
Haga, A., et al. Biochim. Biophys. Acta 1480 (1-2), 235-244 (2000)

Images



Western blot analysis of lysates from Ramos cell line, mouse liver, rat liver tissue (from left to right), using GPI Antibody (C-term)(Cat. #AP9786b). AP9786b was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35 ug per lane.



GPI Antibody (C-term) (Cat. #AP9786b) flow cytometric analysis of Ramos cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Citations

- Evodiamine Induces Apoptosis and Inhibits Migration of HCT-116 Human Colorectal Cancer Cells.
- Enolase1 (ENO1) and glucose-6-phosphate isomerase (GPI) are good markers to predict human sperm freezability.

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