Datasheet for ABIN653743

anti-GPI antibody (C-Term)

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Overview

Quantity:	400 µL
Target:	GPI
Binding Specificity:	AA 445-473, C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GPI antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS)

Product Details

Immunogen:	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.
Clone:	RB24626
Isotype:	Ig Fraction
Predicted Reactivity:	Pr
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	GPI
Alternative Name:	GPI (GPI Products)

Target Details

Target Type:	Viral Protein
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.
Molecular Weight:	63147
Gene ID:	2821
NCBI Accession:	NP_000166, NP_001171651
UniProt:	P06744

Application Details

Application Notes:	WB: 1:1000. FC: 1:10~50
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

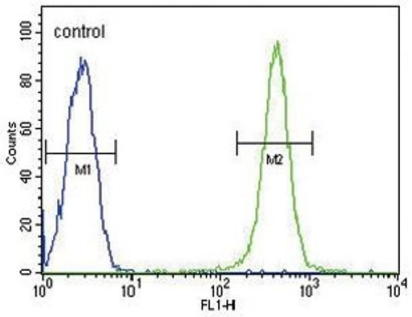
Publications

Product cited in:

Jiang, Wang, Wang, Xu, Xu, Tang, Sun, Wang, Zhang: "Enolase1 (ENO1) and glucose-6-phosphate isomerase (GPI) are good markers to predict human sperm freezability." in: **Cryobiology**, Vol. 71, Issue 1, pp. 141-5, (2015) (PubMed).

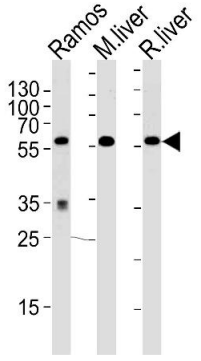
Zhao, Li, Liao, Luo, Shi, Feng, Chen: "Evodiamine Induces Apoptosis and Inhibits Migration of HCT-116 Human Colorectal Cancer Cells." in: **International journal of molecular sciences**, Vol. 16, Issue 11, pp. 27411-21, (2015) (PubMed).

Images



Flow Cytometry

Image 1. GPI Antibody (C-term) (ABIN653743 and ABIN2843045) 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.



Western Blotting

Image 2. Western blot analysis of lysates from Ramos cell line,mouse liver,rat liver tissue (from left to right),using GPI Antibody (C-term) (ABIN653743 and ABIN2843045). (ABIN653743 and ABIN2843045) 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 µg per lane.