

Recombinant Anti-GPI Rabbit mAb

Catalog # AP95167

Product Information

Application	WB, IHC, FC, IF/IC
Primary Accession	P06744
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal
Calculated MW	63147

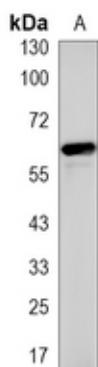
Additional Information

Gene ID	2821
Other Names	Glucose-6-phosphate isomerase; GPI; Autocrine motility factor; AMF; Neuroleukin; NLK; Phosphoglucose isomerase; PGI; Phosphohexose isomerase; PHI; Sperm antigen 36; SA-36
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human GPI protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~1:10~50 IF/IC~~N/A
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

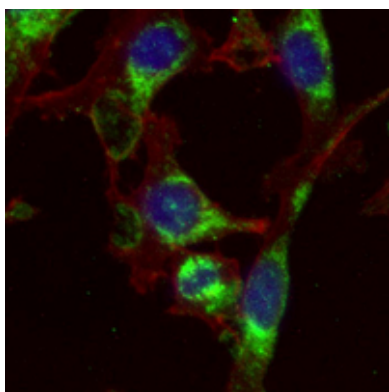
Protein Information

Name	GPI {ECO:0000303 PubMed:2387591, ECO:0000312 HGNC:HGNC:4458}
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: 28803808). 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 (PubMed: 11437381). Functions as neuroleukin, a neurotrophic factor supporting the survival of spinal and sensory neurons (PubMed: 11004567 , PubMed: 3352745). Released by lectin- stimulated T-cells to induce immunoglobulin secretion (PubMed: 11004567 , PubMed: 3352745).
Cellular Location	Cytoplasm. Secreted

Images



Western blot analysis of GPI expression in HeLa (A) whole cell lysates. (Predicted band size: 63 kD; Observed band size: 63 kD)



Immunofluorescent analysis of GPI staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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