

For Research Use Only

GPI Monoclonal antibody

Catalog Number: 67178-1-Ig **Featured Product**



Basic Information

Catalog Number: 67178-1-Ig	GenBank Accession Number: BC004982	Purification Method: Protein G purification
Size: 1800 µg/ml	GeneID (NCBI): 2821	CloneNo.: 2F11E4
Source: Mouse	UNIPROT ID: P06744	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000 IF 1:50-1:500
Isotype: IgG1	Full Name: glucose phosphate isomerase	
Immunogen Catalog Number: AG7419	Calculated MW: 63 kDa	
	Observed MW: 55-64 kDa	

Applications

Tested Applications: IF/ICC, IHC, WB, ELISA	Positive Controls: WB : HepG2 cells, HeLa cells, PC-3 cells, LNCaP cells, HEK-293 cells IHC : human lung cancer tissue, IF : PC-3 cells,
Species Specificity: Human	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

GPI (Glucose-6-phosphate isomerase), which is also named as autocrine motility factor (AMF), phosphoglucose isomerase (PGI), Neuroleukinin (NLK), phosphohexose isomerase (PHI) or sperm antigen 36 (SA-36), is a housekeeping cytosolic enzyme that plays a key role in both glycolysis and gluconeogenesis pathways. It is also a multifunctional protein that displays cytokine properties, eliciting mitogenic, motogenic, and differentiation activities, and has been implicated in tumor progression and metastasis (PMID:12783864, 19603112). This protein can exist as a homodimer in the catalytically active form and a monomer in the secreted form (PMID:11371164). It has 2 isoforms produced by alternative splicing with the calculated molecular mass of 63-64 kDa, and an apparent molecular mass of 55 and 64 kDa under non-reducing and reducing conditions, respectively (PMID: 19603112, 11004567).

Storage

Storage:
Store at -20°C.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

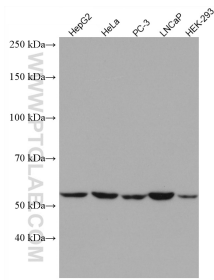
T: 4006900926

E: Proteintech-CN@ptglab.com

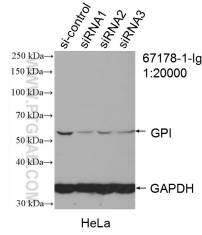
W: ptgcn.com

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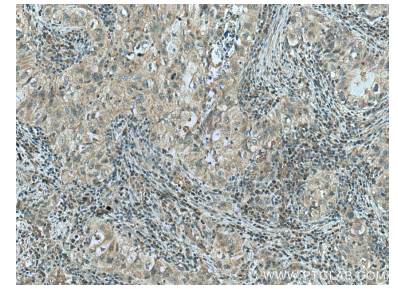
Selected Validation Data



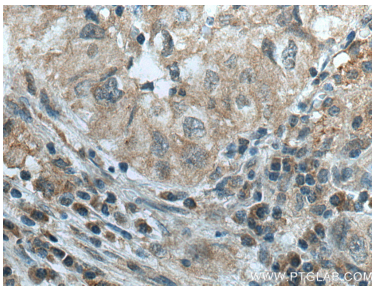
Various lysates were subjected to SDS PAGE followed by western blot with 67178-1-Ig (GPI antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



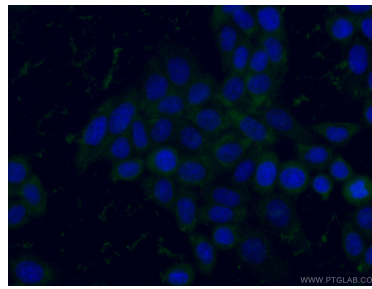
WB result of GPI antibody (67178-1-Ig: 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-GPI transfected HeLa cells.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 67178-1-Ig (GPI antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 67178-1-Ig (GPI antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed PC-3 cells using 67178-1-Ig (GPI antibody) at dilution of 1:50 and Coralite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).