

For Research Use Only

GPI Monoclonal antibody

Catalog Number: 67178-1-Ig

Featured Product



Basic Information

Catalog Number:

67178-1-Ig

Size:

1000 ug/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG7419

GenBank Accession Number:

BC004982

GeneID (NCBI):

2821

UNIPROT ID:

P06744

Full Name:

glucose phosphate isomerase

Calculated MW:

63 kDa

Observed MW:

55-64 kDa

Purification Method:

Protein A purification

CloneNo.:

2F11E4

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:500-1:2000

IF/ICC 1:400-1:1600

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

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

Positive Controls:

WB : HepG2 cells, HeLa cells, PC-3 cells, LNCaP cells, HEK-293 cells

IHC : human lung cancer tissue,

IF/ICC : PC-3 cells,

Background Information

GPI (Glucose-6-phosphate isomerase), which is also named as autocrine motility factor (AMF), phosphoglucose isomerase (PGI), Neuroleukin (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. Stable for one year after shipment.

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:

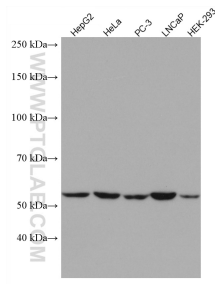
T: 4006900926

E: Proteintech-CN@ptglab.com

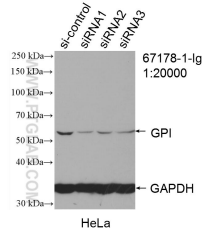
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

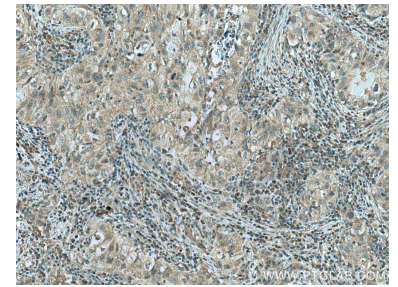
Selected Validation Data



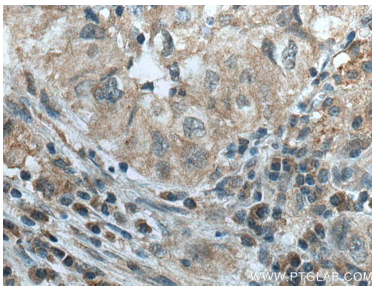
Various lysates were subjected to SDS PAGE followed by western blot with 67178-1-Ig (GPI antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



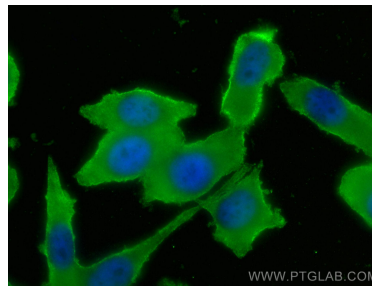
WB result of GPI antibody (67178-1-Ig; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-GPI transfected HeLa cells.



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 GPI antibody (67178-1-Ig, Clone: 2F11E4) at dilution of 1:800 and Multi-rAb CoraLite® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002).