For Research Use Only

GPI Monoclonal antibody

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

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Basic Information

Catalog Number:
67178-1-Ig

Concentration:
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 G 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), Neuroleukinis(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 exsit 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 63-64kDa, and an apparent molecular mass of 55 and 64 kDa under non-reducing and reducing conditions, respectively(PMID: 19603112, 11004567).

Notable Publications

Author	Pubmed ID	Journal	Application
Wanli Yu	39933531	Dev Cell	

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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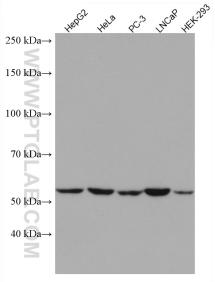
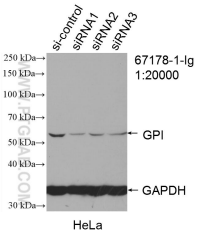
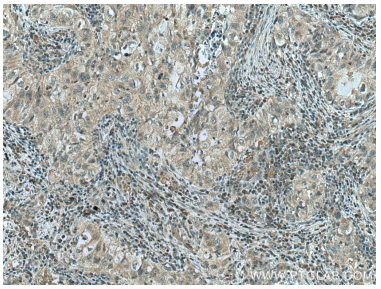
Selected Validation Data



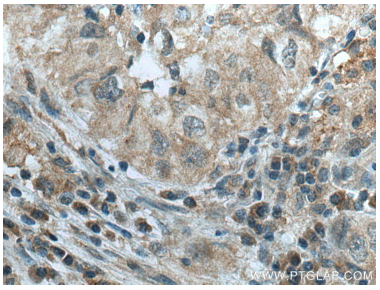
Various lysates were subjected to SDS PAGE followed by western blot with 67178-1-Ig (GPI antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



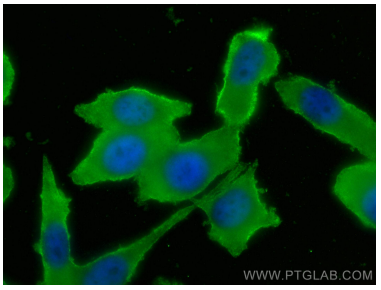
WB result of GPI antibody (67178-1-Ig; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-GPI transfected HeLa cells.



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 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).