

For Research Use Only

GPI Polyclonal antibody

Catalog Number: 15171-1-AP

Featured Product

30 Publications



Basic Information

Catalog Number:

15171-1-AP

Concentration:

600 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG7423

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:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:100-1:400

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, pig

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 : HeLa cells, PC-3 cells, PC3 cells, U251 cells, U87-MG cells

IHC : human lung cancer tissue, human normal colon

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).

Notable Publications

Author	Pubmed ID	Journal	Application
Xixi Guo	31480692	Biomolecules	WB
Rongkun Li	34836938	Cell Death Dis	WB
Zhiyong Zhang	36384075	Int Immunopharmacol	WB

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:

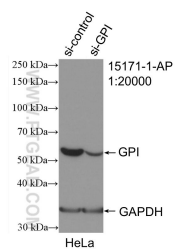
T: 4006900926

E: Proteintech-CN@ptglab.com

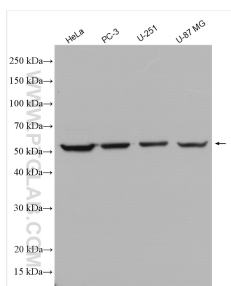
W: ptgcn.com

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

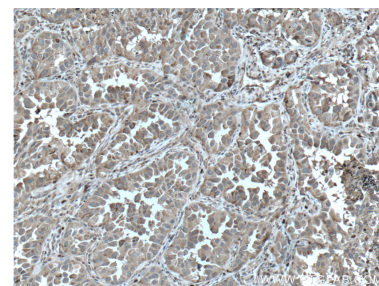
Selected Validation Data



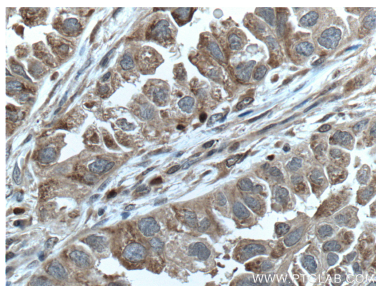
WB result of GPI antibody (15171-1-AP; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-GPI transfected HeLa cells.



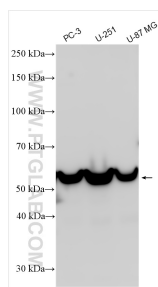
Various lysates were subjected to SDS PAGE followed by western blot with 15171-1-AP (GPI antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 15171-1-AP (GPI Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



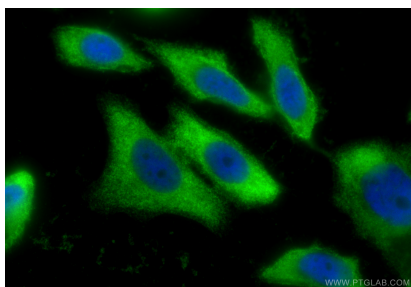
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 15171-1-AP (GPI Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 15171-1-AP (GPI antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human normal colon slide using 15171-1-AP (GPI antibody) at dilution of 1:200 (under 20x 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 (15171-1-AP) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).