For Research Use Only

GPI Polyclonal antibody

Catalog Number:15171-1-AP Featured Product 31 Publications

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Basic Information

Catalog Number:
15171-1-AP

Size:
150ul , Concentration: 600 ug/ml by Nanodrop and 220 ug/ml by Bradford method using BSA as the standard;

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), 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
Xixi Guo	31480692	Biomolecules	WB
Rongkun Li	34836938	Cell Death Dis	WB
Zhiyong Zhang	36384075	Int Immunopharmacol	WB

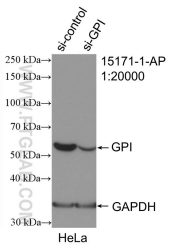
Storage

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

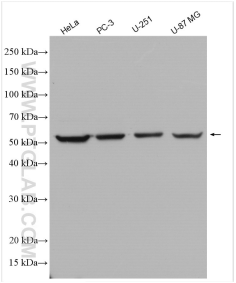
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

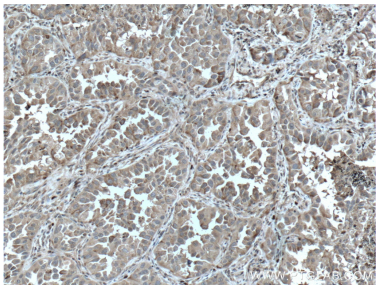
Selected Validation Data



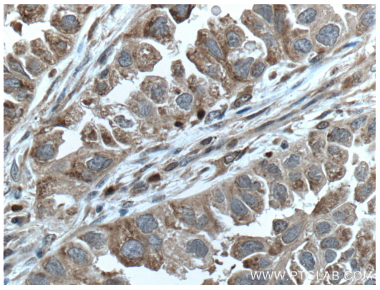
WB result of GPI antibody (15171-1-AP; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-GPI transfected HeLa cells.



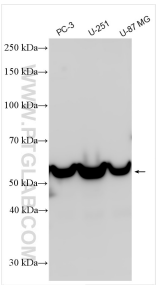
Various lysates were subjected to SDS PAGE followed by western blot with 15171-1-AP (GPI antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



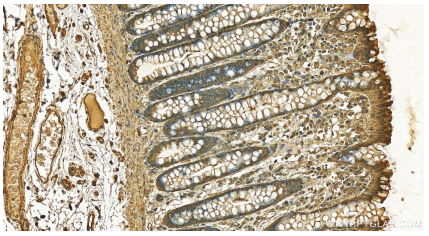
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 15171-1-AP (GPI Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



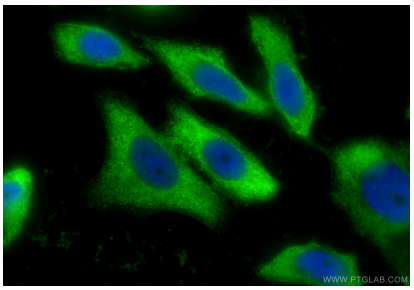
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 15171-1-AP (GPI Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).