For Research Use Only

PUS1 Polyclonal antibody

Catalog Number:11512-1-AP Featured Product 3 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
11512-1-AP

Size:
150ul , Concentration: 240 ug/ml by Nanodrop and 200 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG2071

GenBank Accession Number:
BC019320

GeneID (NCBI):
80324

UNIPROT ID:
Q9Y606

Full Name:
pseudouridylate synthase 1

Calculated MW:
427 aa, 47 kDa

Observed MW:
40 kDa, 44 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:1000-1:8000
IHC: 1:250-1:1000
IF/ICC: 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat

Cited Species:
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 : HEK-293 cells, HeLa cells, mouse lung tissue, MCF-7 cells

IHC : human ovary tumor tissue,

IF/ICC : MCF-7 cells,

Background Information

PUS1 is a protein-coding gene located on human chromosome 12q24.33, encoding a pseudouridine synthase that catalyzes the isomerization of uridine to pseudouridine (Ψ) in RNA molecules. This post-transcriptional modification is the most abundant RNA modification in cells and plays essential roles in RNA structure stabilization and function. (PMID: 38450158)

Notable Publications

Author	Pubmed ID	Journal	Application
Cecilia Martinez Campos	34376564	RNA	WB
Haiqi Xu	39349603	Nat Methods	WB
Chenlu Lan	37091827	Pharmgenomics Pers Med	WB

Storage

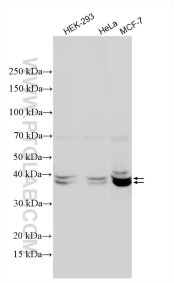
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

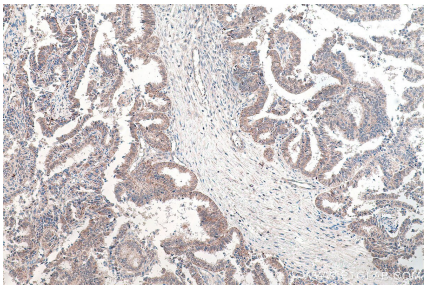
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

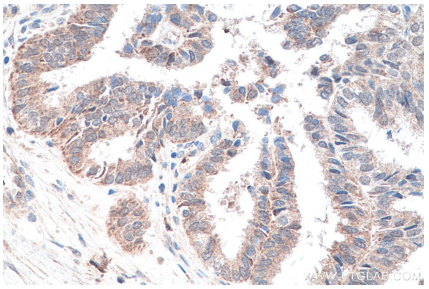
Selected Validation Data



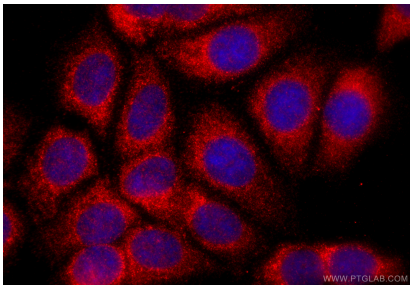
Various lysates were subjected to SDS PAGE followed by western blot with 11512-1-AP (PUS1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 11512-1-AP (PUS1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 11512-1-AP (PUS1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using PUS1 antibody (11512-1-AP) at dilution of 1:400 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4).