

For Research Use Only

HNRNPU Polyclonal antibody

Catalog Number: 16365-1-AP

Featured Product

8 Publications



Basic Information

Catalog Number:

16365-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG9151

GenBank Accession Number:

BC003367

GeneID (NCBI):

3192

UNIPROT ID:

Q00839

Full Name:

heterogeneous nuclear ribonucleoprotein U (scaffold attachment factor A)

Calculated MW:

91 kDa

Observed MW:

120 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:500-1:2000

IF/ICC 1:500-1:2000

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:

WB, IHC, IF, IP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Positive Controls:

WB: HEK-293 cells, HeLa cells, Jurkat cells

IP: HeLa cells,

IHC: mouse kidney tissue,

IF/ICC: HepG2 cells,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

HNRNPU, also named as HNRPU, SAFA, and U21.1, is a 825 amino acid protein, which is extensively phosphorylated. HNRNPU as a component of ribonucleosomes localized in cytoplasmic mRNP granules containing untranslated mRNAs. HNRNPU is a component of the CRD-mediated complex that promotes MYC mRNA stabilization. HNRNPU Plays a role in the circadian regulation of the core clock component ARNTL/BMAL1 transcription. The calculated molecular weight of HNRNPU is 90 kDa, but the 120 kDa HNRNPU protein is an abundant nucleoplasmic phosphoprotein that can be crosslinked to pre-mRNA in intact cells by UV light (PMID: 1628625).

Notable Publications

Author	Pubmed ID	Journal	Application
Xiaoqing Liu	34726485	mSystems	IP,IF
Xiaozhu Tang	35260179	J Exp Clin Cancer Res	WB
Songge Xing	31331910	Cancer Res	IF

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

*** 20ul sizes contain 0.1% BSA

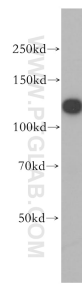
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

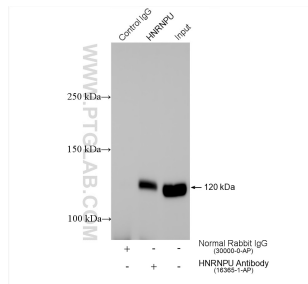
E: proteintech@ptglab.com
W: ptglab.com

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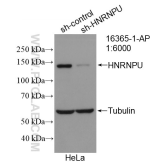
Selected Validation Data



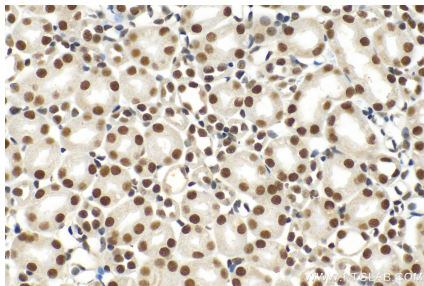
HEK-293 cells were subjected to SDS PAGE followed by western blot with 16365-1-AP (HNRNPU antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



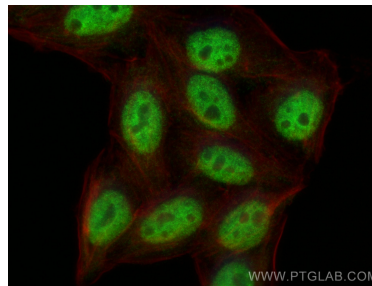
IP result of anti-HNRNPU (IP:16365-1-AP, 4ug; Detection:16365-1-AP 1:8000) with HeLa cells lysate 2000 ug.



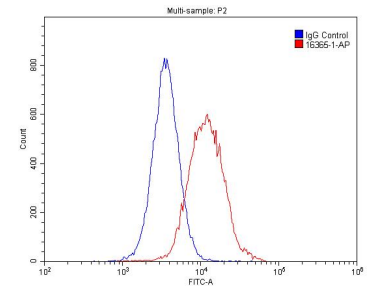
WB result of HNRNPU antibody (16365-1-AP; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HNRNPU transfected HeLa cells.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 16365-1-AP (HNRNPU antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using HNRNPU antibody (16365-1-AP) at dilution of 1:1000 and Coralite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1X10⁶ HepG2 cells were stained with 0.2ug HNRNPU antibody (16365-1-AP, red) and control antibody (blue). Cells were fixed with 4% PFA and permeabilized with 0.1% Triton X-100. Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.