For Research Use Only

NOL12 Polyclonal antibody

Catalog Number:15456-1-AP Featured Product 2 Publications

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

Basic Information

Catalog Number:
15456-1-AP

Size:
150ul , Concentration: 350 ug/ml by Nanodrop and 240 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG7723

GenBank Accession Number:
BC002808

GeneID (NCBI):
79159

UNIPROT ID:
Q9UGY1

Full Name:
nucleolar protein 12

Calculated MW:
25 kDa

Observed MW:
32 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:6000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IF/ICC 1:400-1:1600

Applications

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

Cited Applications:
WB, IHC, CoIP, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, rat

Positive Controls:

WB : HeLa cells, SH-SY5Y cells, HepG2 cells, Raji cells

IP : HeLa cells,

IF/ICC : HepG2 cells,

Background Information

Nucleolar protein 12 (NOL12), a multifunctional RNA-binding protein, has been found to be related to genomic stability, DNA damage repair, and apoptosis. High expression of NOL12 is associated with worse reduced overall survival (OS), high pathological grade, node metastasis, and advanced clinical stage in patients with HCC (PMID: 35693698). Knockdown of NOL12 impairs cellular proliferation by inducing a G1/S cell cycle arrest, but does so outside of a nucleolar stress response and in a p53-independent manner (PMID: 29069457).

Notable Publications

Author	Pubmed ID	Journal	Application
Stefanie Jäger	22190034	Nature	WB
Jingtao Liu	38467618	Cell Death Discov	IHC,WB,IF,CoIP

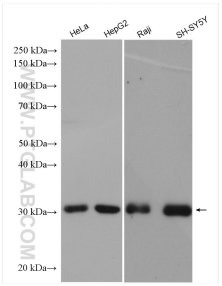
Storage

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

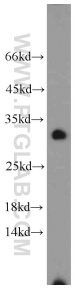
*** 20ul sizes contain 0.1% BSA

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

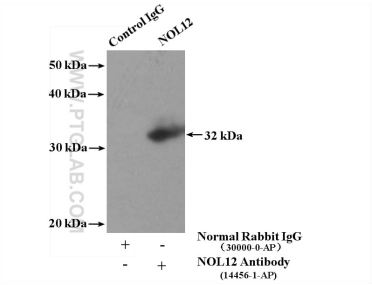
Selected Validation Data



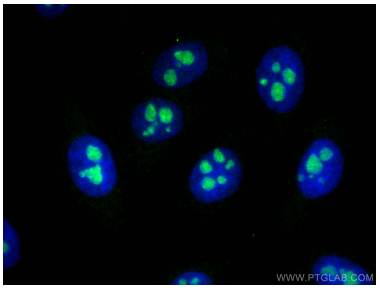
Various lysates were subjected to SDS PAGE followed by western blot with 15456-1-AP (NOL12 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



HeLa cells were subjected to SDS PAGE followed by western blot with 15456-1-AP (NOL12 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-NOL12 (IP:15456-1-AP, 4ug; Detection:15456-1-AP 1:300) with HeLa cells lysate 4000ug.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using NOL12 antibody (15456-1-AP) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).