

For Research Use Only

RNASEH1 Polyclonal antibody

Catalog Number: 15606-1-AP

Featured Product

51 Publications



Basic Information

Catalog Number:

15606-1-AP

Size:

150ul, Concentration: 650 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG7990

GenBank Accession Number:

BC002973

GeneID (NCBI):

246243

UNIPROT ID:

O60930

Full Name:

ribonuclease H1

Calculated MW:

32 kDa

Observed MW:

32 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:5000

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

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, ChIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB : HeLa cells, U2OS cells

IP : HeLa cells,

IF/ICC : HeLa cells,

Background Information

Ribonucleases H are enzymes that cleave the RNA of RNA/DNA hybrids that form during replication and repair and which could lead to DNA instability if they were not processed. Eukaryotic RNases H are larger and more complex than their prokaryotic counterparts [PMID:12667461]. Eukaryotic RNase H1 has acquired a Hybrid Binding Domain that confers processivity and affinity for the substrate. Because of its essential role and its similarities in structure and enzymatic mechanism to the RNase H of HIV reverse transcriptase, RNASEH1 has been implicated in mitochondrial DNA replication during mouse development [PMID:19228196].

Notable Publications

Author	Pubmed ID	Journal	Application
Negin Khosraviani	36178790	STAR Protoc	WB
Sonia Jimeno	34535666	Nat Commun	IF
Yanli Liu	36114190	Nat Commun	IF

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

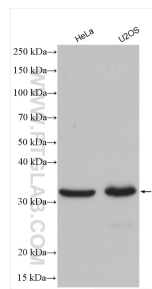
For technical support and original validation data for this product please contact:

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

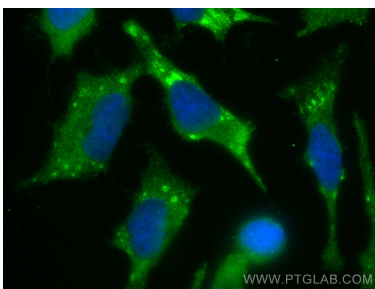
E: proteintech@ptglab.com
W: ptglab.com

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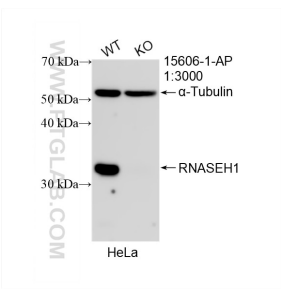
Selected Validation Data



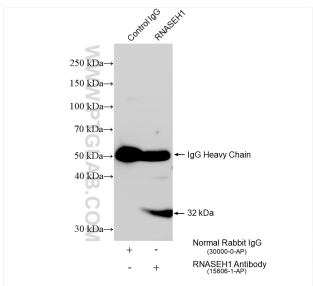
Various lysates were subjected to SDS PAGE followed by western blot with 15606-1-AP (RNASEH1 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using RNASEH1 antibody (15606-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



WB result of RNASEH1 antibody (15606-1-AP; 1:3000; room temperature for 1.5 hours) with wild-type and RNASEH1 knockout HeLa cells.



IP result of anti-RNASEH1 (IP:15606-1-AP, 4ug; Detection:15606-1-AP 1:3000) with HeLa cells lysate 1750 ug.