

For Research Use Only

XRN1 Polyclonal antibody

Catalog Number: 23108-1-AP

Featured Product

2 Publications



Basic Information

Catalog Number:

23108-1-AP

Size:

150ul, Concentration: 550 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG19398

GenBank Accession Number:

BC078146

GeneID (NCBI):

54464

UNIPROT ID:

Q8IZH2

Full Name:

5'-3' exoribonuclease 1

Calculated MW:

1706 aa, 194 kDa

Observed MW:

175 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:20-1:200

IF/ICC 1:20-1:200

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB

Species Specificity:

human

Cited Species:

human

Positive Controls:

WB : HeLa cells,

IHC : human heart tissue, human brain tissue

IF/ICC : HeLa 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

Exoribonuclease I (XRN1), also known as Sep1 or Rar5, is a 1,694-amino acid protein that functions as the major cytoplasmic 5 prime to 3 prime exoribonuclease and plays an important role in mRNA turnover. XRN1 may also function in the microtubular cytoskeleton as well as in DNA recombination and replication. XRN1 induces the expression of stress granules (SGs), cytoplasmic aggregates of stalled translational preinitiation complexes that accumulate during stress, and GW bodies/processing bodies (PBs), distinct cytoplasmic sites of mRNA degradation. There are several isoforms of XRN1 that are produced as a result of alternative splicing events. Loss of XRN1 markedly affects cell growth rates. This antibody is specific to the XRN1 protein.

Notable Publications

Author	Pubmed ID	Journal	Application
Damian M Janecki	38197223	Nucleic Acids Res	WB
Ruihui Xie	36939377	Cancer Res	WB

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

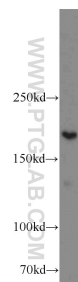
For technical support and original validation data for this product please contact:

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

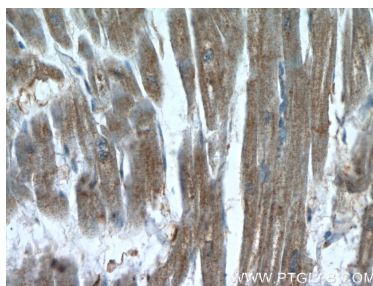
E: proteintech@ptglab.com
W: ptglab.com

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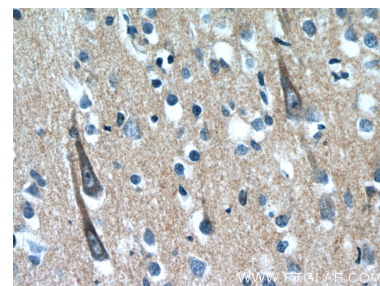
Selected Validation Data



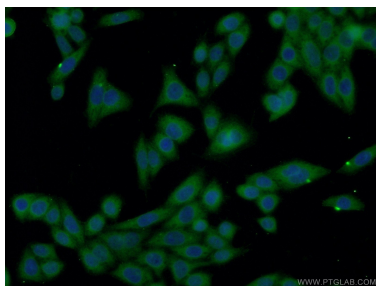
HeLa cells were subjected to SDS PAGE followed by western blot with 23108-1-AP (XRN1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human heart slide using 23108-1-AP (XRN1 Antibody) at dilution of 1:50.



Immunohistochemical analysis of paraffin-embedded human brain slide using 23108-1-AP (XRN1 Antibody) at dilution of 1:50.



Immunofluorescent analysis of HeLa cells using 23108-1-AP (XRN1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).