

Basic Information

Product Name	Anti-XRN1 Antibody	
Gene Name	XRN1	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse	
Tested Application	WB, ICC/IF, ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.	
Immunogen	E.coli-derived human XRN1 recombinant protein (Position: K523-H1198). Human XRN1 shares 93.2% amino acid (aa) sequence identity with mouse XRN1.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	194 kDa	
Dilution Ratios	Western blot (WB):	1:500-2000
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-400
	Enzyme linked immunosorbent assay (ELISA):	1:100-1000

Storage

12 months from date of receipt, -20°C as supplied.

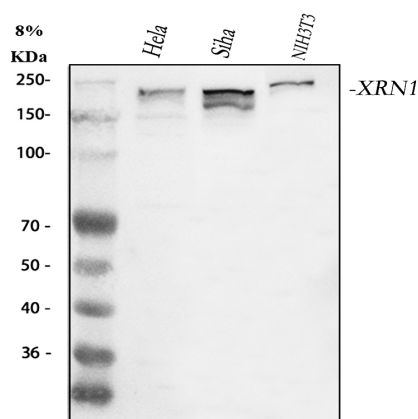
Background Information

5'-3' exoribonuclease 1 (Xrn1) is a protein that in humans is encoded by the XRN1 gene. This gene encodes a member of the 5'-3' exonuclease family. The encoded protein may be involved in replication-dependent histone mRNA degradation, and interacts directly with the enhancer of mRNA-decapping protein 4. In addition to mRNA metabolism, a similar protein in yeast has been implicated in a variety of nuclear and cytoplasmic functions, including homologous recombination, meiosis, telomere maintenance, and microtubule assembly. Mutations in this gene are associated with osteosarcoma, suggesting that the encoded protein may also play a role in bone formation. Alternative splicing results in multiple transcript variants.

Reference

Anti-XRN1 Antibody被引用在1文献中。

Selected Validation Data



Western blot analysis of XRN1 using anti-XRN1 antibody (A02855-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

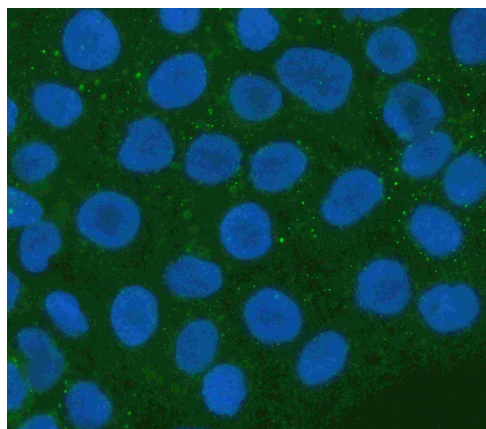
Lane 1: human HeLa whole cell lysates,

Lane 2: human SiHa whole cell lysates,

Lane 3: mouse NIH/3T3 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-XRN1 antigen affinity purified polyclonal antibody (A02855-2) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for XRN1 at approximately 194 kDa. The expected band size for XRN1 is at 194 kDa.



ICC/IF analysis of XRN1 using anti-XRN1 antibody (A02855-2). XRN1 was detected in an immunocytochemical section of A431 cells. The section was incubated with rabbit anti-XRN1 Antibody (A02855-2) at a dilution of 1:100. Fluoro488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).