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XRN1 Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8532b

Product Information

Application	WB, E
Primary Accession	Q8IZH2
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit
Host	Mouse
Clonality	monoclonal
Isotype	IgG1,k
Clone Names	1647CT536.85.48
Calculated MW	194107

Additional Information

Gene ID	54464
Other Names	5'-3' exoribonuclease 1, 3.1.13.-, Strand-exchange protein 1 homolog, XRN1, SEP1
Target/Specificity	This XRN1 antibody is generated from a mouse immunized with arecombinant protein between1455-1706 amino acids from human XRN1.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	XRN1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	XRN1 (HGNC:30654)
Function	Major 5'-3' exoribonuclease involved in mRNA decay (PubMed: 18172165, PubMed:33472058). Required for the 5'-3'-processing of the G4 tetraplex-containing DNA and RNA substrates (By similarity). The kinetic of hydrolysis is faster for G4 RNA tetraplex than for G4 DNA tetraplex and monomeric RNA tetraplex (By similarity). Plays a role in replication-dependent

	histone mRNA degradation (PubMed:18172165). May act as a tumor suppressor protein in osteogenic sarcoma (OGS) (PubMed:12426100).
Cellular Location	Cytoplasm. Note=Discrete foci at the inner surface of the cell membrane
Tissue Location	Expressed in heart, brain, pancreas, spleen, testis, osteogenic sarcoma (OGS) biopsy and primary cell lines

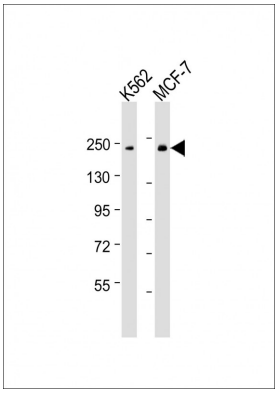
Background

Major 5'-3' exoribonuclease involved in mRNA decay. Required for the 5'-3'-processing of the G4 tetraplex-containing DNA and RNA substrates. The kinetic of hydrolysis is faster for G4 RNA tetraplex than for G4 DNA tetraplex and monomeric RNA tetraplex. Binds to RNA and DNA (By similarity). Plays a role in replication-dependent histone mRNA degradation. May act as a tumor suppressor protein in osteogenic sarcoma (OGS).

References

Shimoyama Y.,et al.Neuroscience 121:899-906(2003).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Sato Y.,et al.DNA Res. 5:241-246(1998).
Lejeune F.,et al.Mol. Cell 12:675-687(2003).

Images



All lanes : Anti-XRN1 Antibody at 1:2000 dilution Lane 1: K562 whole cell lysate Lane 2: MCF-7 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 194 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.