

XRN1 Antibody

Purified Mouse Monoclonal Antibody (Mab)

Catalog # AM8532b

Product Information

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|--------------------------|------------------------|
| Application | WB, E |
| Primary Accession | Q8IZH2 |
| Reactivity | Human, Mouse |
| Host | Mouse |
| Clonality | monoclonal |
| Isotype | IgG1,k |
| Clone Names | 1647CT536.85.48 |
| Calculated MW | 194107 |

Additional Information

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|---------------------------|---|
| 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 between 1455-1706 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

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|-----------------|---|
| Name | XRN1 (HGNC:30654) |
| Function | 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). |

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| 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 |

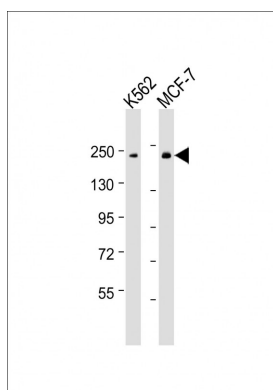
Background

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'.