

XRN1 Antibody
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8532b

Specification

XRN1 Antibody - Product Information

Application	WB,E
Primary Accession	O8IZH2
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1,k
Calculated MW	194107

XRN1 Antibody - 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 between 1455-1706 amino acids from human XRN1.

Dilution

WB ~ ~ 1:2000

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.

XRN1 Antibody - Protein Information

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).

Cellular Location

Cytoplasm. Note=Discrete foci at the inner surface of the cell membrane

Tissue Location

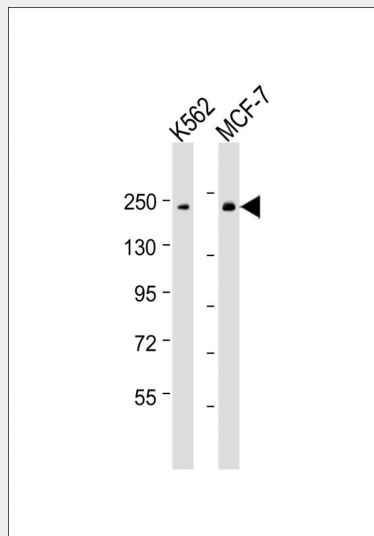
Expressed in heart, brain, pancreas, spleen, testis, osteogenic sarcoma (OGS) biopsy and primary cell lines

XRN1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

XRN1 Antibody - 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% NFD/MTBST.

XRN1 Antibody - 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).

XRN1 Antibody - 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).