


## Product datasheet

# Anti-Xrn1 antibody ab70259

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### Overview

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<b>Product name</b>	Anti-Xrn1 antibody
<b>Description</b>	Rabbit polyclonal to Xrn1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IP, ICC/IF, EMSA
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Horse, Cow, Dog, Chimpanzee, Rhesus monkey, Orangutan 
<b>Immunogen</b>	Synthetic peptide corresponding to Human Xrn1 (C terminal). Database link: <a href="#">Q8IZH2</a>

 [Run BLAST with](#)

 [Run BLAST with](#)

### General notes

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7 Preservative: 0.09% Sodium azide Constituents: 1.815% Tris, 1.764% Sodium citrate, 0.021% PBS
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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## The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab70259 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/5000 - 1/15000. Detects a band of approximately 194 kDa (predicted molecular weight: 194 kDa).
IP		Use at 2-5 µg/mg of lysate.
ICC/IF	★ ★ ★ ★ ★ (1)	Use at an assay dependent concentration.
EMSA		Use at an assay dependent concentration. PubMed: 20691152

## Target

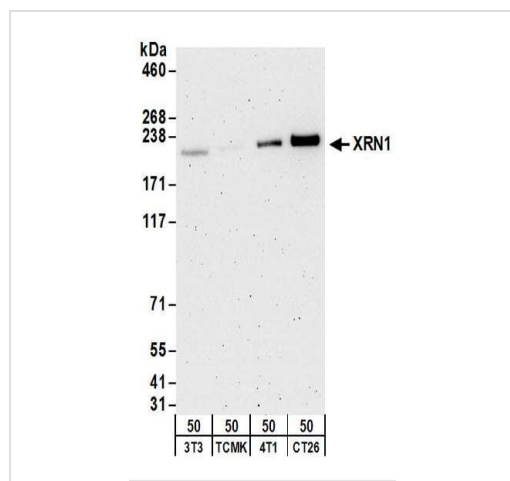
### Relevance

Xrn1 is the 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). May act as a tumor suppressor protein in osteogenic sarcoma (OGS). Associates with alpha and beta tubulins (By similarity). Found in a mRNP complex with RENT1, RENT2, RENT3B and XRN1.

### Cellular localization

Cytoplasmic

## Images



Western blot - Anti-Xrn1 antibody (ab70259)

**All lanes :** Anti-Xrn1 antibody (ab70259) at 0.2 µg/ml

**Lane 1 :** NIH3T3 whole cell lysate

**Lane 2 :** TCMK-1 whole cell lysate

**Lane 3 :** 4T1 whole cell lysate

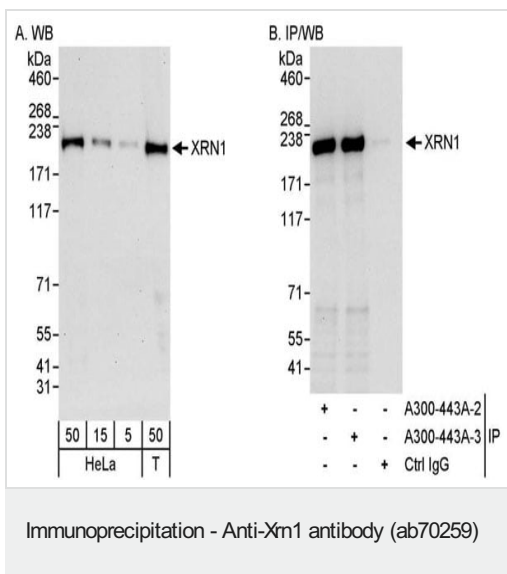
**Lane 4 :** CT26.WT whole cell lysate

Lysates/proteins at 50 µg per lane.

**Predicted band size:** 194 kDa

**Exposure time:** 3 minutes

Detection by chemiluminescence.



Whole cell lysate from HeLa (5, 15 and 50 µg for WB; 1 mg for immunoprecipitation, 20% of IP loaded) and 293T (T; 50 µg) cells. ab70259 used for western blot at 0.1 µg/ml (**A**) and 1 µg/ml (**B**) and used for IP at 3 µg/mg lysate.

XRN1 was also immunoprecipitated by ab70259. Detection was by chemiluminescence with exposure times of 30 seconds (**A**) and 10 seconds (**B**).

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- We investigate all quality concerns to ensure our products perform to the highest standards

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