

For Research Use Only

# XRN2 Monoclonal antibody

Catalog Number: 66852-1-Ig **2 Publications**



## Basic Information

<b>Catalog Number:</b> 66852-1-Ig	<b>GenBank Accession Number:</b> BC006417	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Nanodrop and 920 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 22803	<b>CloneNo.:</b> 2C3E3
<b>Source:</b> Mouse	<b>Full Name:</b> 5'-3' exoribonuclease 2	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IHC 1:150-1:600 IF 1:250-1:1000
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 104 kDa	
<b>Immunogen Catalog Number:</b> AG27927	<b>Observed MW:</b> 109 kDa	

## Applications

**Tested Applications:**  
IF, IHC, WB, ELISA

**Cited Applications:**  
WB

**Species Specificity:**  
Human, mouse, rat

**Cited Species:**  
human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB :** HT-29 cells, HEK-293 cells, COLO 320 cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells

**IHC :** human breast cancer tissue,

**IF :** HepG2 cells,

## Background Information

XRN2 is one exonuclease that degrades the Pol II associated product of poly(A) site cleavage, which is crucial for Pol II termination. During transcription termination, XRN2 cleavages at the polyadenylation site liberates a 5' fragment which is subsequently processed to form the mature mRNA and a 3' fragment which remains attached to the elongating polymerase. The processive degradation of this 3' fragment by this protein may promote termination of transcription.

## Notable Publications

Author	Pubmed ID	Journal	Application
Wen-Long Xue	32186933	Am J Physiol Cell Physiol	WB
Ruihui Xie	36939377	Cancer Res	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

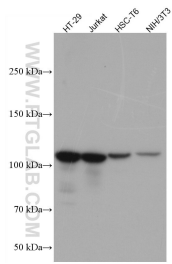
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

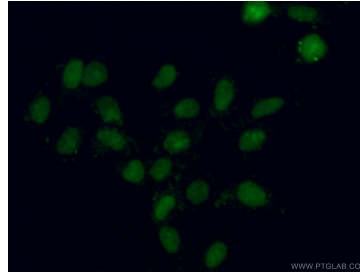
E: proteintech@ptglab.com  
W: ptglab.com

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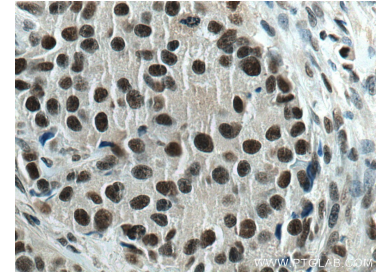
## Selected Validation Data



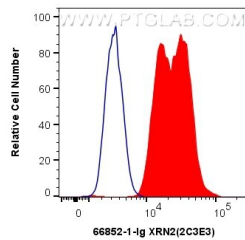
Various lysates were subjected to SDS PAGE followed by western blot with 66852-1-Ig (XRN2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 66852-1-Ig (XRN2 antibody) at dilution of 1:500 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66852-1-Ig (XRN2 antibody) at dilution of 1:300 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



$1 \times 10^6$  HepG2 cells were intracellularly stained with 0.4  $\mu$ g Anti-Human XRN2 (66852-1-Ig, Clone:2C3E3) and CoraLite<sup>®</sup>488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4  $\mu$ g Mouse IgG1 Isotype Control (MOPC-21) (65124-1-Ig, Clone: MOPC-21) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).