For Research Use Only

XRN2 Monoclonal antibody

Catalog Number:66852-1-Ig 2 Publications

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Basic Information

Catalog Number:
66852-1-Ig

Size:
150ul , Concentration: 1000 ug/ml by Nanodrop and 920 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG27927

GenBank Accession Number:
BC006417

GeneID (NCBI):
22803

UNIPROT ID:
Q9H0D6

Full Name:
5'-3' exoribonuclease 2

Calculated MW:
104 kDa

Observed MW:
109 kDa

Purification Method:
Protein A purification

CloneNo.:
2C3E3

Recommended Dilutions:
WB 1:1000-1:6000
IHC 1:150-1:600
IF/ICC 1:400-1:1600

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), 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/ICC : MCF-7 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
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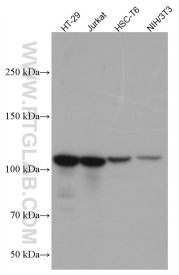
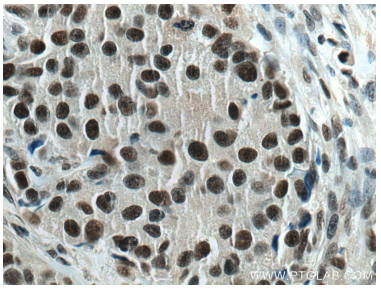
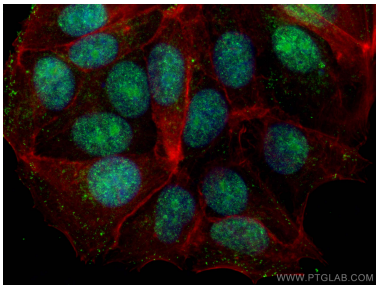
Selected Validation Data



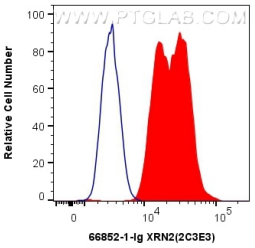
Various lysates were subjected to SDS PAGE followed by western blot with 66852-1-Ig (XRN2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using XRN2 antibody (66852-1-Ig, Clone: 2C3E3) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1), CL594-phalloidin (red).



1X10^6 HepG2 cells were intracellularly stained with 0.4 ug Anti-Human XRN2 (66852-1-Ig, Clone:2C3E3) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug 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).