

**Mouse Monoclonal Antibody to XRN2**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2345a****Specification**

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**Mouse Monoclonal Antibody to XRN2 - Product Information**

Application	E, WB, IHC
Primary Accession	<a href="#">O9H0D6</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	108.5kDa KDa

**Description**

This gene encodes a 5'-3' exonuclease that promotes transcription termination at cotranscriptional cleavage sites. Alternative splicing results in multiple transcript variants encoding different isoforms.;

**Immunogen**

Purified recombinant fragment of human XRN2 (AA: 398-547) expressed in E. Coli.

**Formulation**

Purified antibody in PBS with 0.05% sodium azide

**Application Note**

ELISA: 1/10000; WB: 1/500 - 1/2000; IHC: 1/200 - 1/1000;

**Mouse Monoclonal Antibody to XRN2 - Additional Information**

**Gene ID** 22803

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Mouse Monoclonal Antibody to XRN2 is for research use only and not for use in diagnostic or therapeutic procedures.

**Mouse Monoclonal Antibody to XRN2 - Protein Information**

**Name** XRN2

**Function**

Possesses 5'→3' exoribonuclease activity (By similarity). May promote the termination of transcription by RNA polymerase II. During transcription termination, cleavage 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. Binds to RNA polymerase II (RNAP II) transcription termination R-loops formed by G- rich pause sites (PubMed:<a href="http://www.uniprot.org/citations/21700224" target="\_blank">21700224</a>).

#### Cellular Location

Nucleus, nucleolus.

#### Tissue Location

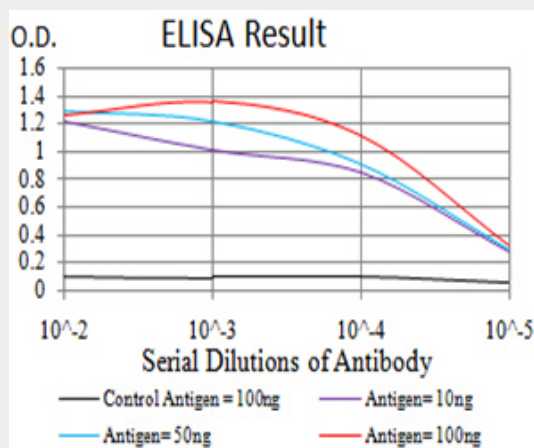
Expressed in the spleen, thymus, prostate, testis, ovary, small intestine, colon, peripheral blood leukocytes, heart, brain, placenta, lung, liver, skeletal muscle, kidney, and pancreas Isoform 2 is expressed predominantly in peripheral blood leukocytes

### Mouse Monoclonal Antibody to XRN2 - Protocols

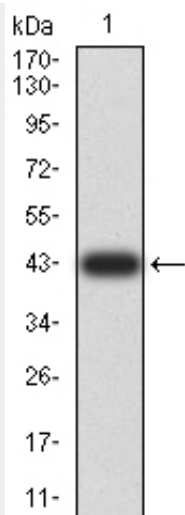
Provided below are standard protocols that you may find useful for product applications.

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

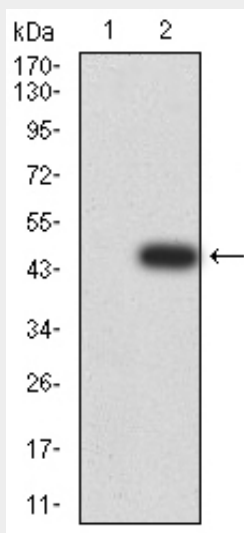
### Mouse Monoclonal Antibody to XRN2 - Images



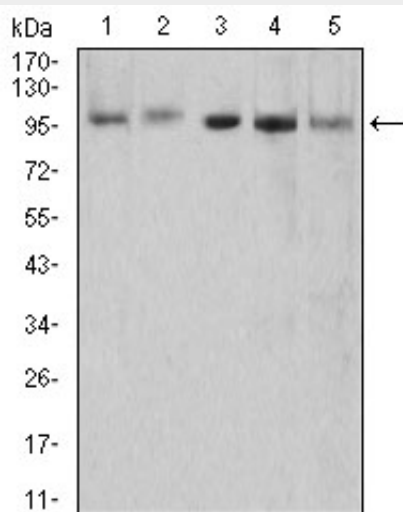
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



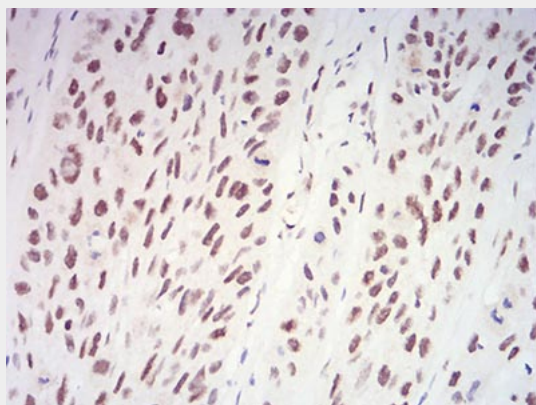
Western blot analysis using XRN2 mAb against human XRN2 (AA: 398-547) recombinant protein. (Expected MW is 43.1 kDa)



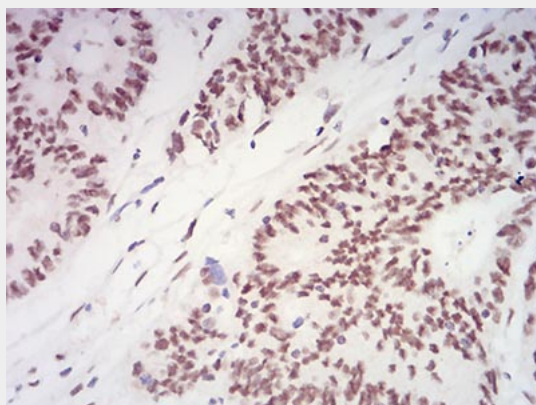
Western blot analysis using XRN2 mAb against HEK293 (1) and XRN2 (AA: 398-547)-hlgGfC transfected HEK293 (2) cell lysate.



Western blot analysis using XRN2 mouse mAb against HEK293 (1), NTERA-2 (2), LNCap (3), HepG2 (4), and PC-3 (5) cell lysate.



Immunohistochemical analysis of paraffin-embedded esophageal cancer tissues using XRN2 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using XRN2 mouse mAb with DAB staining.

#### **Mouse Monoclonal Antibody to XRN2 - References**

1.EMBO J. 2012 May 30;31(11):2566-78. ; 2.DNA Seq. 2005 Apr;16(2):143-6.;