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Mouse Monoclonal Antibody to XRN2

Purified Mouse Monoclonal Antibody
Catalog # AO2346a

Product Information

Application	WB, IHC, E
Primary Accession	Q9H0D6
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	7C5B10
Isotype	Mouse IgG1
Calculated MW	108582
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;

Additional Information

Gene ID	22803
Other Names	5'-3' exoribonuclease 2, 3.1.13.-, DHM1-like protein, DHP protein, XRN2
Dilution	WB~~1:1000 IHC~~1:100~500 E~~N/A
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.

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:21700224).

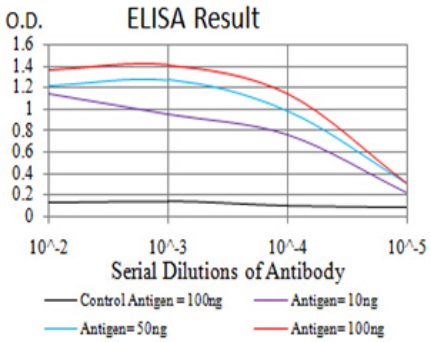
Cellular Location Nucleus, nucleolus.

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

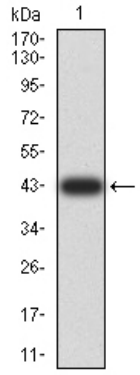
References

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

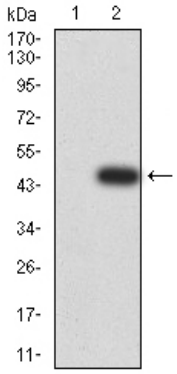
Images



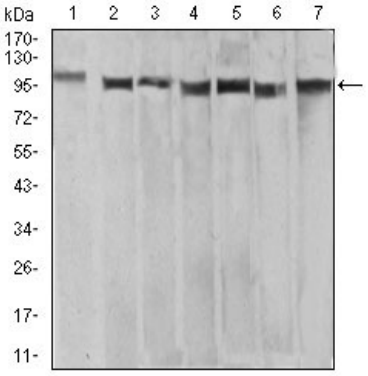
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



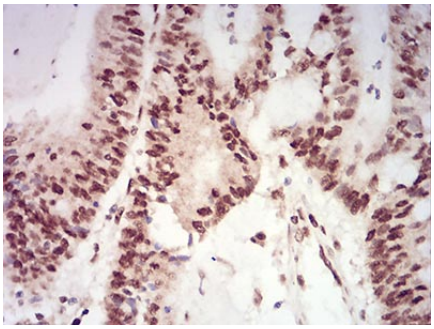
Western blot analysis using XRN2 mAb against human XRN2 (AA: 398-547) recombinant protein. (Expected MW is 43.1 kDa)



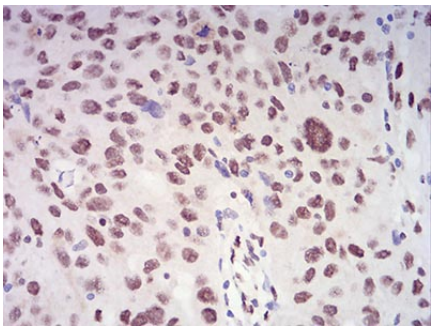
Western blot analysis using XRN2 mAb against HEK293 (1) and XRN2 (AA: 398-547)-hIgGFc transfected HEK293 (2) cell lysate.



Western blot analysis using XRN2 mouse mAb against Raw264.7 (1), HEK293 (2), NTERA-2 (3), LNcap (4), HepG2 (5), HEK293 (6), and Hela (7) cell lysate.



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



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