

Rabbit XRN2 Polyclonal Antibody | anti-XRN2 antibody

XRN2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321057	Rabbit	Human, Mouse, Monkey	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

XRN2; Polyclonal Antibody; XRN2 Antibody; 5' 3' exoribonuclease 2; DHM1 like protein; DHP protein; XRN 2; anti-XRN2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Monkey
Clonality	Polyclonal
Isotype	IgG
Specificity	XRN2 antibody detects endogenous levels of XRN2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1028
Applicable Applications for anti-XRN2 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human XRN2
Subcellular Location	Nucleus, Nucleolus.
Tissue Specificity	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.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA321057 staining COS7 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



IHC (Immunohistochemistry)

AAA321057 at 1/100 staining human liver tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis on COS7 cell lysate using XRN2 Antibody, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-XRN2 antibody

Description: This gene shares similarity with the mouse Dhml and the yeast dhp1 gene. The yeast gene is involved in homologous recombination and RNA metabolism, such as RNA synthesis and RNA trafficking. Complementation studies show that Dhml has a similar function in mouse as dhp1. The function of the human gene has not yet been determined. Transcript variants encoding different isoforms have been noted for this gene; however, their full-length nature is not known.

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).

Subunit Structure: Interacts with POLR2A and SMN1/SMN2 (PubMed:26700805). Interacts with CDKN2AIP and NKRF (PubMed:24462208). Interacts with CDKN2AIPNL; the interaction is direct (PubMed:26779609). Interacts with TRIM71 (via NHL repeats) in an RNA-dependent manner (PubMed:23125361).

Similarity: Belongs to the 5'-3' exonuclease family. XRN2/RAT1 subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	964750564
NCBI GeneID	22803
NCBI Accession #	NP_001304889.1
NCBI GenBank Nucleotide #	NM_001317960.1
UniProt Accession #	Q9H0D6; Q3L8N4; Q6KGZ9; Q9BQL1; Q9NTW0; Q9NXS6; Q9UL53
Molecular Weight	Observed: 108 kDa Predicted: 109 kDa
NCBI Official Full Name	5'-3' exoribonuclease 2 isoform 1
NCBI Official Synonym Full Names	5'-3' exoribonuclease 2
NCBI Official Symbol	XRN2
NCBI Protein Information	5'-3' exoribonuclease 2
UniProt Protein Name	5'-3' exoribonuclease 2
UniProt Gene Name	XRN2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/xrn2-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321057>