

XRN2 polyclonal antibody

Catalog: BS61578

Host: Rabbit

Reactivity: Human, Mouse

Background:

5'-3' exoribonuclease 2 (XRN2) is a nuclear exonuclease that degrades RNA containing a 5'-monophosphate to component mononucleotides. XRN2 also plays an important role in the termination of transcription at the 3'-end of genes by displacing RNA polymerase II (RNAPII) from the DNA strand. According to the 'torpedo' model of transcription termination, XRN2 gains access to the 5' phosphate of the nascent RNA during co-transcriptional polyadenylation site cleavage. XRN2 degrades RNA at a faster rate than RNAPII-mediated RNA synthesis, resulting in the eviction of RNAPII from the template. In addition, XRN2 is essential for maturation of 5.8S and 28S ribosomal RNA and small nucleolar RNA molecules. Several research studies suggest that XRN2 plays a role in the quality control check of RNA molecules. XRN2 co-transcriptionally degrades aberrant nuclear mRNA transcripts that result from defective 5'mRNA capping, splicing, or 3'end formation. XRN2 exonuclease rapidly degrades hypomodified tRNA and excess miRNA molecules, indicating that XRN2 likely regulates tRNA and miRNA quality control as well.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 110 kDa

Swiss-Prot:

Q9H0D6

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum

by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE)

Applications:

WB: 1:500~1:1000

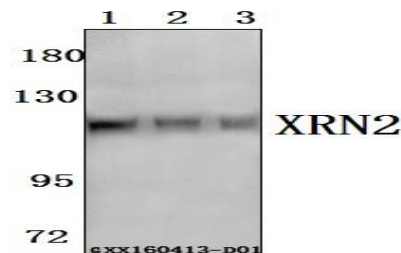
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

XRN2 polyclonal antibody detects endogenous levels of XRN2 protein.

DATA:



Western blot (WB) analysis of XRN2 polyclonal antibody at 1:500 dilution

Lane1:A549 whole cell lysate(40ug)

Lane2:L02 whole cell lysate(40ug)

Lane3:SK-OVCAR3 whole cell lysate(40ug)

Note:

For research use only, not for use in diagnostic procedure.

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