Datasheet for ABIN7601966

# anti-XRN1 antibody (AA 523-1198)

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## Overview

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| Quantity: | 100 µg |
| Target: | XRN1 |
| Binding Specificity: | AA 523-1198 |
| Reactivity: | Human, Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This XRN1 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunocytochemistry (ICC), ELISA, Immunofluorescence (IF) |

## Product Details

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| Purpose: | Anti-XRN1 Antibody Picoband® |
| Immunogen: | E.coli-derived human XRN1 recombinant protein (Position: K523-H1198). Human XRN1 shares 93.2% amino acid (aa) sequence identity with mouse XRN1. |
| Characteristics: | Anti-XRN1 Antibody Picoband® (ABIN7601966). Tested in WB, ICC/IF, ELISA applications. This antibody reacts with Human, Mouse. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |
| Purification: | Immunogen affinity purified. |

## Target Details

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| Target: | XRN1 |
| Alternative Name: | XRN1 (XRN1 Products) |
| Background: | 5'-3' exoribonuclease 1 (Xrn1) is a protein that in humans is encoded by the XRN1 gene. This gene encodes a member of the 5'-3' exonuclease family. The encoded protein may be involved in replication-dependent histone mRNA degradation, and interacts ly with the enhancer of mRNA-decapping protein 4. In addition to mRNA metabolism, a similar protein in yeast has been implicated in a variety of nuclear and cytoplasmic functions, including homologous recombination, meiosis, telomere maintenance, and microtubule assembly. Mutations in this gene are associated with osteosarcoma, suggesting that the encoded protein may also play a role in bone formation. Alternative splicing results in multiple transcript variants. |
| Molecular Weight: | 200 kDa |
| Gene ID: | 54464 |

## Application Details

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| Application Notes: | Western blot, 0.25-0.5 µg/mL, Human, Mouse<br>Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human<br>ELISA, 0.1-0.5 µg/mL, -<br>1. Bashkirov, V. I., Scherthan, H., Solinger, J. A., Buerstedde, J.-M., Heyer, W.-D. A mouse cytoplasmic exoribonuclease (mXRN1p) with preference for G4 tetraplex substrates. J. Cell Biol. 136: 761-773, 1997. 2. Gatfield, D., Izaurralde, E. Nonsense-mediated messenger RNA decay is initiated by endonucleolytic cleavage in Drosophila. Nature 429: 575-578, 2004. 3. Ingelfinger, D., Arndt-Jovin, D. J., Luhrmann, R., Achsel, T. The human LSm1-7 proteins colocalize with the mRNA-degrading enzymes Dcp1/2 and Xrn1 in distinct cytoplasmic foci. RNA 8: 1489-1501, 2002. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |
| Reconstitution: | Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL. |
| Concentration: | 500 µg/mL |
| Buffer: | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4. |
| Storage: | 4 °C,-20 °C |

## Handling

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| Storage Comment: | At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month.<br>It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing. |