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XRN1 Blocking Peptide (C-term)

Synthetic peptide
Catalog # BP21479b

Specification

XRN1 Blocking Peptide (C-term) - Product Information

Primary Accession Q8IZH2

XRN1 Blocking Peptide (C-term) - Additional Information

Gene ID 54464

Other Names
5'-3' exoribonuclease 1, 3113-, Strand-exchange protein 1 homolog, XRN1, SEP1

Target/Specificity
The synthetic peptide sequence is selected from aa 1389-1403 of HUMAN XRN1

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

XRN1 Blocking Peptide (C-term) - Protein Information

Name XRN1 (HGNC:30654)

Function
Major 5'-3' exoribonuclease involved in mRNA decay. Required for the 5'-3'-processing of the G4 tetraplex-containing DNA and RNA substrates. The kinetic of hydrolysis is faster for G4 RNA tetraplex than for G4 DNA tetraplex and monomeric RNA tetraplex. Binds to RNA and DNA (By similarity). Plays a role in replication-dependent histone mRNA degradation. May act as a tumor suppressor protein in osteogenic sarcoma (OGS).

Cellular Location
Cytoplasm. Note=Discrete foci at the inner surface of the cell membrane

Tissue Location
Expressed in heart, brain, pancreas, spleen, testis, osteogenic sarcoma (OGS) biopsy and primary cell lines

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XRN1 Blocking Peptide (C-term) - Protocols

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

- Blocking Peptides

XRN1 Blocking Peptide (C-term) - Images

XRN1 Blocking Peptide (C-term) - Background

Major 5'-3' exoribonuclease involved in mRNA decay. Required for the 5'-3'-processing of the G4 tetraplex-containing DNA and RNA substrates. The kinetic of hydrolysis is faster for G4 RNA tetraplex than for G4 DNA tetraplex and monomeric RNA tetraplex. Binds to RNA and DNA (By similarity). Plays a role in replication-dependent histone mRNA degradation. May act as a tumor suppressor protein in osteogenic sarcoma (OGS).

XRN1 Blocking Peptide (C-term) - References

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Lejeune F.,et al.Mol. Cell 12:675-687(2003).