

NXT1 Blocking Peptide (C-term)
Synthetic peptide
Catalog # BP19752b**Specification**

NXT1 Blocking Peptide (C-term) - Product Information

Primary Accession [O9UKK6](#)
Other Accession [O9QZV9](#), [Q2KIW0](#), [NP_037380.1](#)

NXT1 Blocking Peptide (C-term) - Additional Information

Gene ID 29107

Other Names

NTF2-related export protein 1, Protein p15, NXT1

Target/Specificity

The synthetic peptide sequence is selected from aa 100-111 of HUMAN NXT1

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.

NXT1 Blocking Peptide (C-term) - Protein Information

Name NXT1

Function

Stimulator of protein export for NES-containing proteins (PubMed:10567585). Also plays a role in the nuclear export of U1 snRNA, tRNA, and mRNA (PubMed:10848583). The NXF1-NXT1 heterodimer is involved in the export of HSP70 mRNA in conjunction with ALYREF/THOC4 and THOC5 (PubMed:19165146, PubMed:11259602).

Cellular Location

Nucleus. Nucleus speckle. Cytoplasm. Note=Shuttles between the nucleus and the cytoplasm

NXT1 Blocking Peptide (C-term) - Protocols

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

- [Blocking Peptides](#)

NXT1 Blocking Peptide (C-term) - Images

NXT1 Blocking Peptide (C-term) - Background

The protein encoded by this gene is located in the nuclear envelope. It has protein similarity to nuclear transport factor 2. This protein functions as a nuclear export factor in both RAN (Ras-related nuclear protein)- and CRM1 (required for chromosome region maintenance)-dependent pathways. It is found to stimulate the export of U1 snRNA in RAN- and CRM1-dependent pathways and the export of tRNA and mRNA in a CRM1-independent pathway. The encoded protein heterodimerizes with Tap protein and may regulate the ability of Tap protein to mediate nuclear mRNA export. The use of alternate polyadenylation sites has been found for this gene.

NXT1 Blocking Peptide (C-term) - References

Venkatesan, K., et al. Nat. Methods 6(1):83-90(2009)
Forler, D., et al. Nat. Biotechnol. 21(1):89-92(2003)
Katahira, J., et al. J. Biol. Chem. 277(11):9242-9246(2002)
Wiegand, H.L., et al. Mol. Cell. Biol. 22(1):245-256(2002)
Deloukas, P., et al. Nature 414(6866):865-871(2001)