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INTS9 Blocking Peptide (C-term)

Synthetic peptide
Catalog # BP20367b

Specification

INTS9 Blocking Peptide (C-term) - Product Information

Primary Accession	Q9NV88
Other Accession	Q8K114, Q4R5Z4, Q2KJA6

INTS9 Blocking Peptide (C-term) - Additional Information

Gene ID 55756

Other Names
Integrator complex subunit 9, Int9, Protein related to CPSF subunits of 74 kDa, RC-74, INTS9, RC74

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.

INTS9 Blocking Peptide (C-term) - Protein Information

Name INTS9 {ECO:0000303|PubMed:29471365, ECO:0000312|EMBL:BAA91867.1}

Function
Component of the integrator complex, a multiprotein complex that terminates RNA polymerase II (Pol II) transcription in the promoter-proximal region of genes (PubMed:25201415, PubMed:33243860, PubMed:33548203, PubMed:38570683). The integrator complex provides a quality checkpoint during transcription elongation by driving premature transcription termination of transcripts that are unfavorably configured for transcriptional elongation: the complex terminates transcription by (1) catalyzing dephosphorylation of the C-terminal domain (CTD) of Pol II subunit POLR2A/RPB1 and SUPT5H/SPT5, (2) degrading the exiting nascent RNA transcript via endonuclease activity and (3) promoting the release of Pol II from bound DNA (PubMed:33243860, PubMed:38570683). The integrator complex is also involved in terminating the synthesis of non-coding Pol II transcripts, such as enhancer RNAs (eRNAs), small nuclear RNAs (snRNAs), telomerase RNAs and long non-coding RNAs (lncRNAs) (PubMed:<a href="http://www.uniprot.org/citations/16239144"

target="_blank">16239144, PubMed:22252320, PubMed:26308897, PubMed:30737432). Mediates recruitment of cytoplasmic dynein to the nuclear envelope, probably as component of the integrator complex (PubMed:23904267).

Cellular Location
Nucleus. Cytoplasm

INTS9 Blocking Peptide (C-term) - Protocols

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

- Blocking Peptides

INTS9 Blocking Peptide (C-term) - Images

INTS9 Blocking Peptide (C-term) - Background

Component of the Integrator complex, a complex involved in the small nuclear RNAs (snRNA) U1 and U2 transcription and in their 3'-box-dependent processing. The Integrator complex is associated with the C-terminal domain (CTD) of RNA polymerase II largest subunit (POLR2A) and is recruited to the U1 and U2 snRNAs genes.