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INTS7 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP1987a

Specification

INTS7 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q9NVH2

INTS7 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 25896

Other Names
Integrator complex subunit 7, Int7, INTS7, C1orf73

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP1987a was selected from the N-term region of human INTS7. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

INTS7 Antibody (N-term) Blocking Peptide - Protein Information

Name INTS7 {ECO:0000303|PubMed:29471365, ECO:0000312|HGNC:HGNC:24484}

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:33243860, 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:16239144). May be not involved in the recruitment of cytoplasmic dynein to the nuclear envelope by different components of the INT complex (PubMed:23904267). Plays a role in DNA damage response (DDR) signaling during the S phase (PubMed:21659603).

Cellular Location
Nucleus. Chromosome. Cytoplasm. Note=Localizes to sites of DNA damage in a H2AX-independent manner.

INTS7 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

INTS7 Antibody (N-term) Blocking Peptide - Images

INTS7 Antibody (N-term) Blocking Peptide - Background

INTS7 is a subunit of the Integrator complex, which associates with the C-terminal domain of RNA polymerase II large subunit and mediates 3-prime end processing of small nuclear RNAs U1 and U2.

INTS7 Antibody (N-term) Blocking Peptide - References

Baillat,D., Cell 123 (2), 265-276 (2005)