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INTS1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP12256A

Specification

INTS1 Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	Q8N201
Other Accession	Q6P4S8, NP_001073922.2
Reactivity	**Human**
Predicted	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**244297**
Antigen Region	**113-142**

INTS1 Antibody (N-term) - Additional Information

Gene ID 26173

Other Names
Integrator complex subunit 1, Int1, INTS1, KIAA1440

Target/Specificity
This INTS1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 113-142 amino acids from the N-terminal region of human INTS1.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
INTS1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

INTS1 Antibody (N-term) - Protein Information

Name INTS1 {ECO:0000303|PubMed:29471365, ECO:0000312|HGNC:HGNC:24555}

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: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). 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, PubMed:26308897, PubMed:30737432). Within the integrator complex, INTS1 is involved in the post-termination step: INTS1 displaces INTS3 and the SOSS factors, allowing the integrator complex to return to the closed conformation, ready to bind to the paused elongation complex for another termination cycle (PubMed:38570683). Mediates recruitment of cytoplasmic dynein to the nuclear envelope, probably as component of the integrator complex (PubMed:23904267).

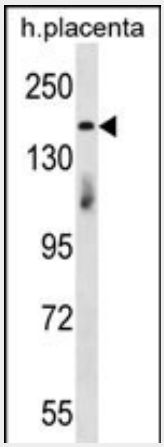
Cellular Location
Nucleus. Nucleus membrane; Single- pass membrane protein

INTS1 Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

INTS1 Antibody (N-term) - Images



INTS1 Antibody (Cat. #AP12256a) western blot analysis in human placenta tissue lysates (35ug/lane).This demonstrates the INTS1 antibody detected the INTS1 protein (arrow).

INTS1 Antibody (N-term) - Background

INTS1 is a subunit of the Integrator complex, which associates with the C-terminal domain of RNA polymerase II large subunit (POLR2A; MIM 180660) and mediates 3-prime end processing of small nuclear RNAs U1 (RNU1; MIM 180680) and U2 (RNU2; MIM 180690) (Baillat et al., 2005 [PubMed 16239144]).

INTS1 Antibody (N-term) - References

Nusbaum, C., et al. Nature 439(7074):331-335(2006)
Baillat, D., et al. Cell 123(2):265-276(2005)
Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)