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CPSF3L Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11162A

Specification

CPSF3L Antibody (N-term) - Product Information

Application	**WB, IHC-P, IF,E**
Primary Accession	Q5TA45
Other Accession	Q3MHC2, Q9CWS4, Q2YDM2, NP_060341.2
Reactivity	**Human**
Predicted	**Bovine, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**67663**
Antigen Region	**91-119**

CPSF3L Antibody (N-term) - Additional Information

Gene ID 54973

Other Names
Integrator complex subunit 11, Int11, 3127-, Cleavage and polyadenylation-specific factor 3-like protein, CPSF3-like protein, Protein related to CPSF subunits of 68 kDa, RC-68, CPSF3L, INTS11, RC68

Target/Specificity
This CPSF3L antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 91-119 amino acids from the N-terminal region of human CPSF3L.

Dilution
WB~~1:1000
IHC-P~~1:10~50
IF~~1:10~50
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
CPSF3L Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CPSF3L Antibody (N-term) - Protein Information

Name INT11

Function RNA endonuclease component of the integrator complex, a multiprotein complex that terminates RNA polymerase II (Pol II) transcription in the promoter-proximal region of genes (PubMed:16239144, PubMed:25201415, PubMed:28396433, PubMed:32697989, PubMed:33243860, PubMed:33548203, PubMed:34762484, PubMed:37080207, 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:32697989, PubMed:33243860, PubMed:33548203, PubMed:34762484, PubMed:37080207, 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, PubMed:22252320, PubMed:26308897, PubMed:30737432). Within the integrator complex, INTS11 constitutes the RNA endonuclease subunit that degrades exiting nascent RNA transcripts (PubMed:28396433, PubMed:32697989, PubMed:33243860, PubMed:33548203, PubMed:34762484, PubMed:37080207, PubMed:38570683). Mediates recruitment of cytoplasmic dynein to the nuclear envelope, probably as component of the integrator complex (PubMed:23904267).

Cellular Location
Nucleus. Cytoplasm

CPSF3L 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

CPSF3L Antibody (N-term) - Images

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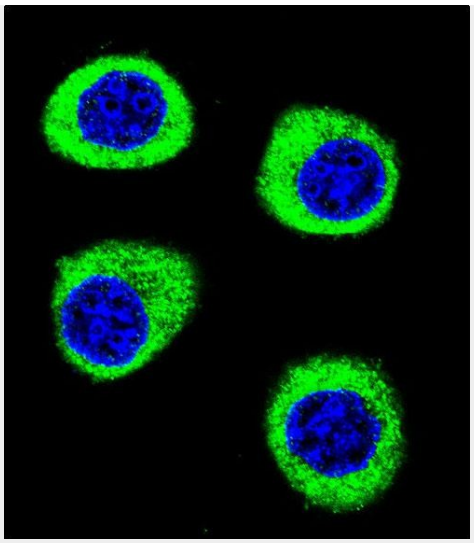
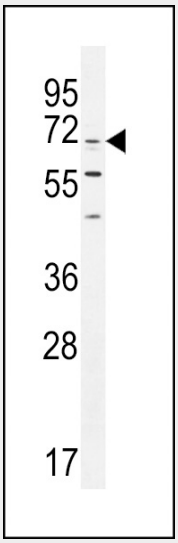
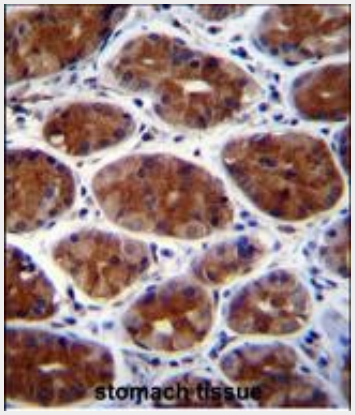


Confocal immunofluorescent analysis of CPSF3L Antibody (N-term)(Cat#AP11162a) with U-251MG cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).



CPSF3L Antibody (N-term) (Cat. #AP11162a) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the CPSF3L antibody detected the CPSF3L protein (arrow).



CPSF3L Antibody (N-term) (Cat. #AP11162a)immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary

antibody and DAB staining.This data demonstrates the use of CPSF3L Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

CPSF3L Antibody (N-term) - Background

The Integrator complex contains at least 12 subunits and associates with the C-terminal domain of RNA polymerase II large subunit (POLR2A; MIM 180660) and mediates the 3-prime end processing of small nuclear RNAs U1 (RNU1; MIM 180680) and U2 (RNU2; MIM 180690). INTS11, or CPSF3L, is the catalytic subunit of the Integrator complex (Baillat et al., 2005 [PubMed 16239144]).

CPSF3L Antibody (N-term) - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)
Baillat, D., et al. Cell 123(2):265-276(2005)
Dominski, Z., et al. Mol. Cell. Biol. 25(4):1489-1500(2005)