

INTS1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP56975

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q8N201
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	244297

Additional Information

Gene ID	26173
Other Names	Integrator complex subunit 1, Int1, INTS1, KIAA1440
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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

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