

DROSHA Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP52002**Specification**

DROSHA Antibody - Product Information

Application	WB, E
Primary Accession	Q9NRR4
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	160 KDa

DROSHA Antibody - Additional Information**Gene ID** 29102**Other Names**

Ribonuclease 3, Protein Drosha, Ribonuclease III, RNase III, p241, DROSHA, RN3, RNASE3L, RNASEN

Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human DROSHA. The exact sequence is proprietary.

Dilution

WB~~1:1000

E~~N/A

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

DROSHA Antibody - Protein Information**Name** DROSHA**Synonyms** RN3, RNASE3L, RNASEN**Function**

Ribonuclease III double-stranded (ds) RNA-specific endoribonuclease that is involved in the initial step of microRNA (miRNA) biogenesis. Component of the microprocessor complex that is required to process primary miRNA transcripts (pri-miRNAs) to release precursor miRNA (pre-miRNA) in the nucleus. Within the microprocessor complex, DROSHA cleaves the 3' and 5' strands of a stem-loop in pri-miRNAs (processing center 11 bp from the dsRNA-ssRNA junction) to release hairpin-shaped pre-miRNAs that are subsequently cut by the cytoplasmic DICER to generate mature miRNAs.

Involved also in pre-rRNA processing. Cleaves double-strand RNA and does not cleave single-strand RNA. Involved in the formation of GW bodies. Plays a role in growth homeostasis in response to autophagy in motor neurons (By similarity).

Cellular Location

Nucleus. Nucleus, nucleolus. Cytoplasm {ECO:0000250|UniProtKB:Q5HZJ0}. Note=A fraction is translocated to the nucleolus during the S phase of the cell cycle. Localized in GW bodies (GWBs), also known as P-bodies.

Tissue Location

Ubiquitous..

DROSHA Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

DROSHA Antibody - Images**DROSHA Antibody - Background**

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DROSHA Antibody - References

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Schmutz J.,et al.Nature 431:268-274(2004).
Gunther M.,et al.Mol. Cell. Biochem. 210:131-142(2000).
Ota T.,et al.Nat. Genet. 36:40-45(2004).