

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

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**DROSHA Antibody - Product Information**

Application	WB, E
Primary Accession	<a href="#">Q9NRR4</a>
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

**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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Bechtel S.,et al.BMC Genomics 8:399-399(2007).  
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).