

KD-Validated Anti-Drosha ribonuclease III Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1506

Product Information

Application	WB, FC, ICC
Primary Accession	Q9NRR4
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB5205
Calculated MW	159316
Gene Name	DROSHA
Aliases	DROSHA; Drosha Ribonuclease III; RNASE3L; RN3; HSA242976; RNASEN; Drosha, Double-Stranded RNA-Specific Endoribonuclease; Ribonuclease Type III, Nuclear; Ribonuclease 3; EC 3.1.26.3; RNase III; ETOHI2; P241; Putative Protein P241 Which Interacts With Transcription Factor Sp1; Drosha, Ribonuclease Type III; Putative Ribonuclease III; Nuclear RNase III Drosha; Ribonuclease III; Protein Drosha; RANSE3L; Etohi2
Immunogen	A synthesized peptide derived from human Drosha

Additional Information

Gene ID	29102
Other Names	Ribonuclease 3, 3.1.26.3, Protein Drosha, Ribonuclease III, RNase III, p241, DROSHA, RN3, RNASE3L, RNASEN

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..

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.