

Anti-RNase III Drosha antibody





Description Rabbit polyclonal to RNase III Drosha.

Model STJ97614

Host Rabbit

Reactivity Human, Mouse

Applications ELISA, IHC, WB

Immunogen Synthesized peptide derived from human RNase III Drosha.

Immunogen Region Internal

Gene ID 29102

Gene Symbol DROSHA

Dilution range WB 1:500-1:2000IHC-P 1:100-1:300ELISA 1:10000

Specificity RNase III Drosha Polyclonal Antibody detects endogenous levels of RNase III

Drosha protein.

Tissue Specificity Ubiquitous.

Purification The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Note For Research Use Only (RUO).

Protein Name Ribonuclease 3 Protein Drosha Ribonuclease III RNase III p241

Clonality Polyclonal

Conjugation Unconjugated

Isotype IgG

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Concentration 1 mg/ml

Storage Instruction Store at -20°C, and avoid repeat freeze-thaw cycles.

Database Links <u>HGNC:17904OMIM:608828</u>

Alternative Names Ribonuclease 3 Protein Drosha Ribonuclease III RNase III p241

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.

Sequence and Domain Family The 2 RNase III domains form an intramolecular dimer where the domain 1

cuts the 3'strand while the domain 2 cleaves the 5'strand of pri-miRNAs,

independently of each other.

Cellular Localization Nucleus Nucleus, nucleolus. 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.

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