

Product datasheet for **TA343790**

DROSHA Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-RNASEN antibody: synthetic peptide directed towards the middle region of human RNASEN. Synthetic peptide located within the following region: AAMDAL EKYNFPQMAHQKRFIERKYRQELKEMRWEREHQEREPEDETIK
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	159 kDa
Gene Name:	drosha ribonuclease III
Database Link:	NP_037367 Entrez Gene 29102 Human Q9NRR4



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Background:

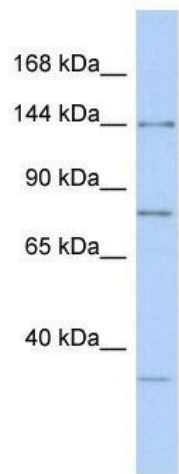
RNASEN is a ribonuclease III double-stranded (ds) RNA-specific endoribonuclease that is involved in the initial step of microRNA (miRNA) biogenesis. Component of the microprocessor complex that is required to process primary miRNA transcripts (pri-miRNAs) to release precursor miRNA (pre-miRNA) in the nucleus. Within the microprocessor complex, RNASEN/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. RNASEN is also involved in pre-rRNA processing. RNASEN cleaves double-strand RNA and does not cleave single-strand RNA. RNASEN is involved in the formation of GW bodies. Members of the ribonuclease III superfamily of double-stranded (ds) RNA-specific endoribonucleases participate in diverse RNA maturation and decay pathways in eukaryotic and prokaryotic cells (Fortin et al., 2002 [PubMed 12191433]). The RNase III Drosha is the core nuclease that executes the initiation step of microRNA (miRNA) processing in the nucleus (Lee et al., 2003 [PubMed 14508493]). [supplied by OMIM]

Synonyms:

ETOHI2; HSA242976; RANSE3L; RN3; RNASE3L; RNASEN

Note:

Immunogen Sequence Homology: Pig: 100%; Human: 100%; Rabbit: 100%; Guinea pig: 100%; Dog: 93%; Rat: 93%; Horse: 93%; Mouse: 93%; Bovine: 93%

Product images:

WB Suggested Anti-RNASEN Antibody Titration:
0.2-1 ug/ml; ELISA Titer: 1: 62500; Positive
Control: Human Spleen