

For Research Use Only

Drosha Polyclonal ANTIBODY



Catalog Number: 55001-1-AP **4 Publications**

Basic Information

Catalog Number: 55001-1-AP	GenBank Accession Number: NM_013235	Purification Method: Antigen affinity purification
Size: 150UL, Concentration: 207 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 29102	Recommended Dilutions: WB 1:500-1:1000
Source: Rabbit	Full Name: ribonuclease type III, nuclear	
Isotype: IgG	Calculated MW: 159 kDa	
	Observed MW: 90 kDa, 151 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB: HEK-293 cells, HeLa cells, HepG2 cells
Cited Applications: WB	
Species Specificity: human, mouse, rat	
Cited Species: human, mouse	

Background Information

DROSHA, also named as RN3, RNASE3L, P241 and RNASEN, is double-stranded (ds) RNA-specific endoribonuclease that is involved in the initial step of microRNA (miRNA) biogenesis. It is a 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 involved also in pre-rRNA processing. Cleaves double-strand RNA and does not cleave single-strand RNA. And it is involved in the formation of GW bodies. The antibody is specific to DROSHA. DROSHA/RNASEN has some transcription forms with MW 160kd, 151kd, 138kd and 90kd.

Notable Publications

Author	Pubmed ID	Journal	Application
Yuan Wang	28522832	Sci Rep	WB
Kaiqiang Fu	31088452	BMC Biol	
Yu-En Gao	27133296	Acta Pharmacol Sin	

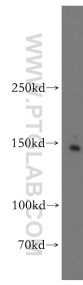
Storage

Storage:
Store at -20°C.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
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Selected Validation Data



HEK-293 cells were subjected to SDS PAGE followed by western blot with 55001-1-AP (Drosha antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.