
Product Name: KD-Validated Drosha Ribonuclease III Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01111**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 159.3kDa

Antigen Information

Gene Name	DROSHA DROSHA; Drosha Ribonuclease III; RNASE3L; RN3; HSA242976; RNASEN; Drosha, Double-Stranded RNA-Specific Endoribonuclease; Ribonuclease Type III, Nuclear; Ribonuclease 3; EC
Alternative Names	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
Gene ID	29102.0
SwissProt ID	Q9NRR4
Immunogen	A synthesized peptide derived from human Drosha

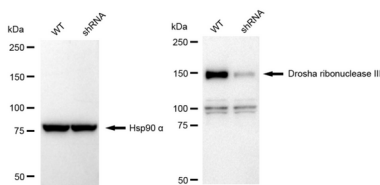
Background

This gene encodes a ribonuclease (RNase) III double-stranded RNA-specific ribonuclease and subunit of the microprocessor protein complex, which catalyzes the initial processing step of microRNA (miRNA) synthesis. The encoded protein cleaves the stem loop structure from the primary microRNA (pri-miRNA) in the nucleus, yielding the precursor miRNA (pre-miRNA), which is then exported to the cytoplasm for further processing. In a human cell line lacking a functional copy of this gene, canonical miRNA synthesis is reduced. Somatic mutations in this gene have been observed in human patients with kidney cancer. [provided by RefSeq, Sep 2016]

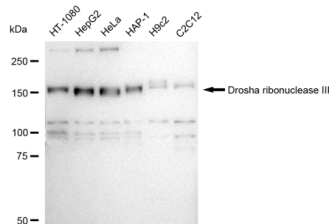
Research Area

Epigenetics and Nuclear Signaling

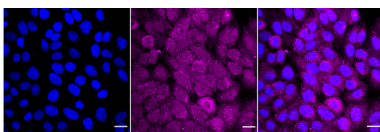
Image Data



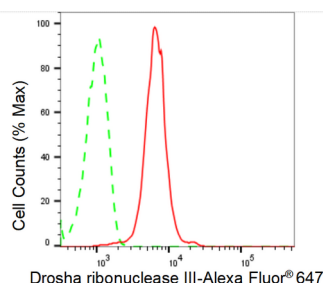
Western blotting analysis using Drosha ribonuclease III antibody (KVA01111). Drosha ribonuclease III expression in wild type (WT) and Drosha ribonuclease III shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Drosha ribonuclease III antibody (KVA01111, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Drosha ribonuclease III antibody (KVA01111). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Drosha ribonuclease III antibody (KVA01111, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with drosha ribonuclease III antibody (KVA01111, 1:1,000). Nuclei were stained blue with DAPI; Drosha ribonuclease III was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Flow cytometric analysis of Drosha ribonuclease III expression in HepG2 cells using Drosha ribonuclease III antibody (KVA01111, 1:2,000). Green, isotype control; red, Drosha ribonuclease III.