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#3410

## Drosha (D30F3) Rabbit mAb

**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, ChIP	H M	Endogenous	160	Rabbit IgG	#Q9NRR4	29102

### Product Usage Information

For optimal ChIP results, use 20  $\mu$ l of antibody and 10  $\mu$ g of chromatin (approximately  $4 \times 10^6$  cells) per IP. This antibody has been validated using SimpleChIP<sup>®</sup> Enzymatic Chromatin IP Kits.

#### Application

Western Blotting  
Chromatin IP

#### Dilution

1:1000  
1:25

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100  $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at  $-20^{\circ}\text{C}$ . Do not aliquot the antibody.

### Specificity/Sensitivity

Drosha (D30F3) Rabbit mAb detects endogenous levels of total Drosha protein.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His549 of human Drosha.

### Background

Drosha was identified as a nuclear RNase III that catalyzes the initial step of microRNA (miRNA) processing (1). This enzyme processes the long primary transcript pri-miRNAs into stem-looped pre-miRNAs. Interference of Drosha results in the increase of pri-miRNAs and the decrease of pre-miRNAs (1). Drosha exists in a multiprotein complex called Microprocessor along with other components, such as DGCR8 (2). Drosha and DGCR8 are necessary for miRNA biogenesis (3).

### Background References

1. Lee, Y. et al. (2003) *Nature* 425, 415-9.
2. Denli, A.M. et al. (2004) *Nature* 432, 231-5.
3. Gregory, R.I. et al. (2004) *Nature* 432, 235-40.

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween<sup>®</sup> 20 at  $4^{\circ}\text{C}$  with gentle shaking, overnight.

### Applications Key

**W:** Western Blotting **ChIP:** Chromatin IP

### Cross-Reactivity Key

**H:** Human **M:** Mouse

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