

Drosha (D30F3) Rabbit mAb

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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 µl of antibody and 10 µg of chromatin (approximately 4 x 10⁶ cells) per IP. This antibody has been validated using SimpleChIP® 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 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°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® 20 at 4°C with gentle shaking, overnight.

Applications Key

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

Cross-Reactivity Key

H: Human **M:** Mouse

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