

**Dicer (D38E7) Rabbit mAb**

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<b>Applications:</b> W, IP	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 220	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q9UPY3	<b>Entrez-Gene Id:</b> 23405
<b>Product Usage Information</b>		<b>Application</b> Western Blotting Immunoprecipitation		<b>Dilution</b> 1:1000 1:50		
<b>Storage</b>		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.				
<b>Specificity/Sensitivity</b>		Dicer (D38E7) Rabbit mAb detects endogenous levels of total Dicer protein.				
<b>Source / Purification</b>		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala1133 of human Dicer.				
<b>Background</b>		Dicer is a member of the RNase III family that specifically cleaves double-stranded RNAs to generate microRNAs (miRNAs) (1). After long primary transcript pri-miRNAs are processed to stem-looped pre-miRNAs by Drosha (2), pre-miRNAs are transported to the cytoplasm and further processed by Dicer to produce 22-nucleotide mature miRNAs (3). The mature miRNA then becomes a part of the RNA-Induced Silencing Complex (RISC) and can bind to the 3' UTR of the target mRNA (3).				
<b>Background References</b>		1. Hutvagner, G. and Zamore, P.D. (2002) <i>Science</i> 297, 2056-60. 2. Lee, Y. et al. (2003) <i>Nature</i> 425, 415-9. 3. Diederichs, S. and Haber, D.A. (2007) <i>Cell</i> 131, 1097-108.				

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
<b>Applications Key</b>	<b>W:</b> Western Blotting <b>IP:</b> Immunoprecipitation
<b>Cross-Reactivity Key</b>	<b>H:</b> Human
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