

# Product Datasheet

## Dicer Antibody NB200-591

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NB200-591**

Dicer Antibody

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	218.7 kDa
Product Description	
Host	Rabbit
Gene ID	23405
Gene Symbol	DICER1
Species	Human, Mouse
Specificity/Sensitivity	In mouse ovary, a 217 kDa band is observed.
Immunogen	Rabbit anti-mouse Dicer polyclonal antibody was raised against a peptide corresponding to amino acids 132-150 and 1017-1033 of mouse Dicer (EDL18787).
Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 0.5-3 ug/ml, Immunohistochemistry 1:20-1:1000, Immunohistochemistry-Paraffin 1:20-1:1000
Application Notes	WB: Use at a dilution of 1/500 - 1/1000. Not tested in other applications. Optimal dilutions/concentrations should be determined by the end user. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.



## Publications

Bhattachariya, A, Dahan, D Et al. Expression of microRNAs is essential for arterial myogenic tone and pressure-induced activation of the PI3-kinase/Akt pathway. *Cardiovasc Res* 2014-02-01 [PMID: 24233972] (IF/IHC, Rat)

Lei D, Shao Z, Zhou X, Yuan H. Synergistic neuroprotective effect of rasagiline and idebenone against retinal ischemia-reperfusion injury via the Lin28-let-7-Dicer pathway. *Oncotarget*. 2018-02-23 [PMID: 29552298] (WB, Mouse)

Simeoli R, Montague K, Jones HR et al. Exosomal cargo including microRNA regulates sensory neuron to macrophage communication after nerve trauma *Nat Commun*. 2017-11-24 [PMID: 29176651] (WB, Mouse)

de Almeida DC, Bassi EJ, Azevedo H et al. A Regulatory miRNA-mRNA Network Is Associated with Tissue Repair Induced by Mesenchymal Stromal Cells in Acute Kidney Injury *Front Immunol*. 2016-01-18 [PMID: 28096802] (IF/IHC, WB, Mouse)

Lu XF, Zhou YJ, Zhang L et al. Loss of Dicer1 impairs hepatocyte survival and leads to chronic inflammation and progenitor cell activation *World J. Gastroenterol*. 2015-06-07 [PMID: 26074697] (IHC-P, Mouse)

Grivna ST, Pyhtila B, Lin H. MIWI associates with translational machinery and PIWI-interacting RNAs (piRNAs) in regulating spermatogenesis. *Proc Natl Acad Sci U S A*. 2006-09-05 [PMID: 16938833]

Lugli G, Larson J, Martone ME et al. Dicer and eIF2c are enriched at postsynaptic densities in adult mouse brain and are modified by neuronal activity in a calpain-dependent manner. *J Neurochem*. 2005-08-01 [PMID: 16092937] (WB, Human, Mouse)

### Details:

WB: Recombinant human dicer and a cytosolic fraction of adult mouse brain (data not shown). 1. Recombinant dicer was recognized at ~220 and 125 kDa bands. The 220 kDa band represents full length dicer and the 125 kDa a fragmented form of dicer. 2. Mouse b

Chen JF, Murchison EP, Tang R et al. Targeted deletion of Dicer in the heart leads to dilated cardiomyopathy and heart failure. *Proc Natl Acad Sci U S A*. 2008-02-12 [PMID: 18256189]

Grelier G, Voirin N, Ay AS et al. Prognostic value of Dicer expression in human breast cancers and association with the mesenchymal phenotype. *Br J Cancer*. 2009-08-18 [PMID: 19672267] (WB, IHC-P)

### Details:

1. WB: Four human breast cancer cell lines; HMEC, HMEC+hTERT, HMEC+LT+hTERT, and HMLER, Fig 2A. 2. WB: Five mouse mammary cell lines; 67NR, 168FARN, 4TO7, 66c14, and 4T1, Fig 3A. 3. IHC (Paraffin): Normal breast and ductal carcinoma tissue, Fig 4A, 4B, &

Poleshko A, Palagin I, Zhang R et al. Identification of cellular proteins that maintain retroviral epigenetic silencing: evidence for an antiviral response. *J Virol*. 2008-03-01 [PMID: 18094192] (WB)

### Details:

WB: HeLa TI-C cells treated with Dicer siRNA, Fig 3C. Note: The (IMG-538) Dicer pAb was siRNA validated by WB in HeLa TI-C cells, Fig 3C.

Barbato C, Ciotti MT, Serafino A et al. Dicer expression and localization in post-mitotic neurons. *Brain Res*. 2007-10-17 [PMID: 17888888] (WB, Rat)

### Details:

Rat neuronal primary cultures from 8 day old Wistar rats. IF (Figs 1, 2B, 2C, 3A, 4-8); WB (Figs 2A, 7A). Notes: 1. Dicer was detected as a single band just below the 220 kDa marker in total cell lysates from hippocampal, cortical, and cerebellar granule

Chiappinelli KB, Haynes BC, Brent MR et al. Reduced DICER1 elicits an interferon response in endometrial cancer cells. *Mol Cancer Res*. 2012-03-01 [PMID: 22252463] (WB, Human)

More publications at <http://www.novusbio.com/NB200-591>





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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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