

Product Datasheet

Dicer Antibody - BSA Free NBP1-06520

Unit Size: 100 ul

Store at 4C. Do not freeze.

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NBP1-06520

Dicer Antibody - BSA Free

Product Information

Unit Size	100 ul
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)
Target Molecular Weight	219 kDa

Product Description

Host	Rabbit
Gene ID	23405
Gene Symbol	DICER1
Species	Human, Mouse
Immunogen	The immunogen recognized by this antibody maps to a region between residue 600 and 650 of human double-stranded RNA-specific endoribonuclease; dicer1 using the numbering given in entry NP_085124.2 (GeneID 23405).

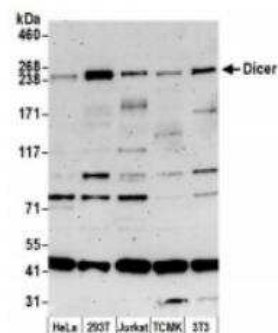
Product Application Details

Applications	Western Blot, Immunoprecipitation, Knockout Validated
Recommended Dilutions	Western Blot 1:2000-1:10000, Immunoprecipitation 2- 10 ug/mg lysate, Knockout Validated Reported in (PMID: 31703292)

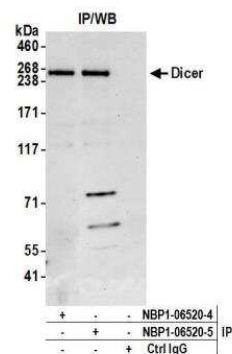


Images

Western Blot: Dicer Antibody [NBP1-06520] - Whole cell lysate (15 ug) from HeLa, 293T, Jurkat, mouse TCMK-1, and mouse NIH3T3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit antiDicer antibody used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 3 minutes.

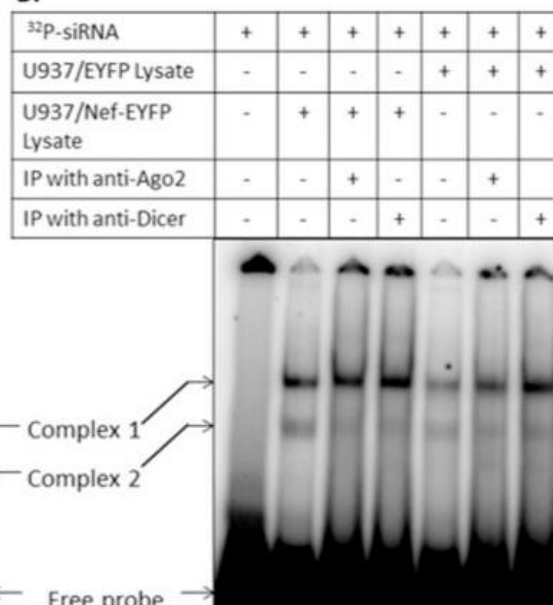


Immunoprecipitation: Dicer Antibody [NBP1-06520] - Detection of human Dicer by western blot of immunoprecipitates. Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HEK293T cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-Dicer antibody NBP1-06520 (lot NBP1-06520-5) used for IP at 6 ug per reaction. Dicer was also immunoprecipitated by a previous lot of this antibody (lot NBP1-06520-4). For blotting immunoprecipitated Dicer, NBP1-06520 was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 10 seconds.



Western Blot: Dicer Antibody [NBP1-06520] - Nef does not affect siRNA loading into RISC, but inhibits its slicing activity. (A) Lysates from the U937 stable cell lines were prepared in Buffer D as described in Materials & Methods. From this, 25 µg of lysate was incubated with 32P-labeled duplex siRNA (without or with 50-fold molar excess of unlabeled siRNA) in binding buffer for 30 min at 4°C. The complexes were separated on a 6% non-denaturing polyacrylamide gel. (B) The gel shift assay was set up as in (A) except that lysates immunodepleted for either Ago2 or Dicer were also included. The positions of the mobility shifted complexes & free probe are indicated. (C) Slicer activity was assayed using immunoprecipitated Ago2 from U937/Nef-EYFP or U937/EYFP cell lysates & a 32P-labeled in vitro transcribed let7a RNA, as described in Materials & Methods. The positions of full-length RNA & the two sliced products are shown. The 59 nt marker oligonucleotide was run on the same gel, but a lower exposure is shown. (D) Densitometric analysis of autoradiograms from three independent experiments was carried out using Image J (version 1.4.1). The slicing activity in Nef-EYFP lysates is represented as a percentage of that in EYFP lysates. Image collected & cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0074472>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

B.



Publications

Thomas KT, Vermare A, Egleston SO et al. MicroRNA 3' ends shorten during adolescent brain maturation *Frontiers in molecular neuroscience* 2023-04-14 [PMID: 37122627] (WB, Mouse)

Su X, Jin Y, Shen Y et al. RNAase III-Type Enzyme Dicer Regulates Mitochondrial Fatty Acid Oxidative Metabolism in Cardiac Mesenchymal Stem Cells *Int J Mol Sci* 2019-11-07 [PMID: 31703292] (WB, KO, Mouse, Human)

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] (IP, Mouse)

Aqil M, Naqvi AR, Bano AS, Jameel S. The HIV-1 Nef Protein Binds Argonaute-2 and Functions as a Viral Suppressor of RNA Interference. *PLoS One.* 2013-09-04 [PMID: 24023945] (Human)

Gurtan AM, Lu V, Bhutkar A et al. In vivo structure-function analysis of human Dicer reveals directional processing of precursor miRNAs. *RNA* 2012-06-01 [PMID: 22546613]

Tan GS, Garchow BG, Liu X et al. Clarifying mammalian RISC assembly in vitro. *BMC Mol Biol*;12(1):19. 2011-04-29 [PMID: 21529364]





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Products Related to NBP1-06520

NB820-59319	Human Appendix Whole Tissue Lysate (Adult Whole Liver Cirrhosis)
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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