

Anti-Dicer Antibody [PSH19-54] - BSA and Azide free

HA751718



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IP
Molecular Wt:	Predicted band size: 219 kDa
Clone number:	PSH19-54

Description: Dicer, also known as endoribonuclease Dicer or helicase with RNase motif, is an enzyme that in humans is encoded by the DICER1 gene. Being part of the RNase III family, Dicer cleaves double-stranded RNA (dsRNA) and pre-microRNA (pre-miRNA) into short double-stranded RNA fragments called small interfering RNA and microRNA, respectively. These fragments are approximately 20–25 base pairs long with a two-base overhang on the 3'-end. Dicer facilitates the activation of the RNA-induced silencing complex (RISC), which is essential for RNA interference. RISC has a catalytic component Argonaute, which is an endonuclease capable of degrading messenger RNA (mRNA).

Positive control: HeLa cell lysate, Daudi cell lysate, MCF7 cell lysate, 293T cell lysate, PC-12 cell lysate.

Subcellular location: Cytoplasm, perinuclear region.

Database links: SwissProt: Q9UPY3 Human | Q8R418 Mouse
Entrez Gene: 299284 Rat

Recommended Dilutions:

WB	1:1,000-1:2,000
IP	1-2µg/sample

Storage Buffer: 1*PBS (pH7.4).

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

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Orders:0086-571-88062880

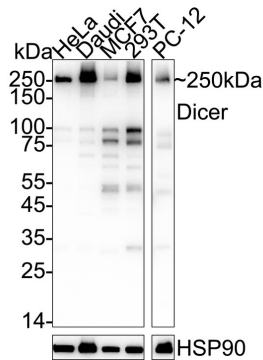
Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

Fig1: Western blot analysis of Dicer on different lysates with Rabbit anti-Dicer antibody (HA751718) at 1/2,000 dilution.



Lane 1: HeLa cell lysate
 Lane 2: Daudi cell lysate
 Lane 3: MCF7 cell lysate
 Lane 4: 293T cell lysate
 Lane 5: PC-12 cell lysate

Lysates/proteins at 15 µg/Lane.

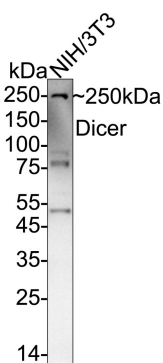
Predicted band size: 219 kDa
 Observed band size: 250 kDa

Exposure time: 30 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA751718) at 1/2,000 dilution was used in primary antibody dilution (K1803) at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Western blot analysis of Dicer on NIH/3T3 cell lysates with Rabbit anti-Dicer antibody (HA751718) at 1/1,000 dilution.



Lysates/proteins at 20 µg/Lane.

Predicted band size: 219 kDa
 Observed band size: 250 kDa

Exposure time: 1 minute 30 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA751718) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

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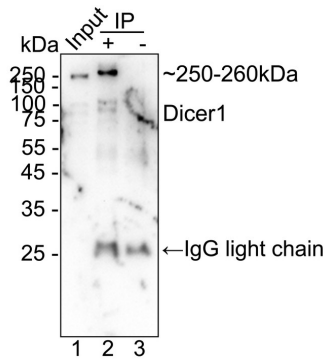


Fig3: Dicer was immunoprecipitated from 0.2 mg HeLa cell lysate with HA751718 at 2 $\mu\text{g}/10 \mu\text{l}$ beads. Western blot was performed from the immunoprecipitate using HA751718 at 1/5,000 dilution. HRP Conjugated Anti-Rabbit IgG for IP Nano-secondary antibody at 1/5,000 dilution was used for 1 hour at room temperature.

Lane 1: HeLa cell lysate (input)

Lane 2: HA751718 IP in HeLa cell lysate

Lane 3: Rabbit IgG instead of HA751718 in HeLa cell lysate

Blocking/Dilution buffer: primary antibody dilution (K1803)

Exposure time: 2 minutes 6 seconds; ECL: K1801

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Poirier EZ et al. An isoform of Dicer protects mammalian stem cells against multiple RNA viruses. *Science*. 2021 Jul
2. Wang Q et al. Mechanism of siRNA production by a plant Dicer-RNA complex in dicing-competent conformation. *Science*. 2021 Nov

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