

Anti-Dicer Antibody [PSH19-54]

HA724080



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: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders: 0086-571-88062880

Technical: 0086-571-89986345

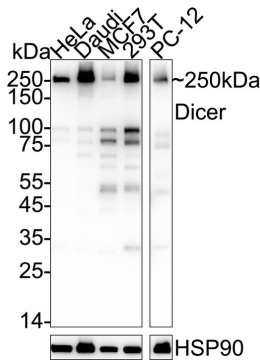
Service mail: support@huabio.cn

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Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Western blot analysis of Dicer on different lysates with Rabbit anti-Dicer antibody (HA724080) 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.

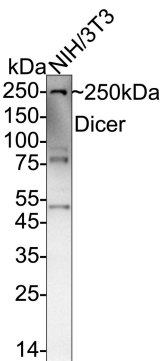
Predicted band size: 219 kDa
Observed band size: 250 kDa

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 (HA724080) 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 (HA724080) 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 (HA724080) 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.

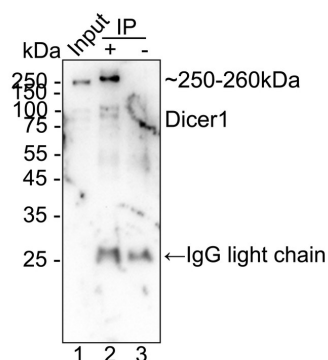


Fig3: Dicer was immunoprecipitated from 0.2 mg HeLa cell lysate with HA724080 at 2 μ g/10 μ l beads. Western blot was performed from the immunoprecipitate using HA724080 at 1/5,000 dilution. HRP Conjugated Anti-Rabbit IgG for IP Nano-secondary antibody at 1/5,000 dilution was used for 1 hour at room temperature.

Lane 1: HeLa cell lysate (input)

Lane 2: HA724080 IP in HeLa cell lysate

Lane 3: Rabbit IgG instead of HA724080 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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