

Anti-Dicer Antibody

HA500522



Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Human, Mouse
Applications:	WB, IF-Cell, FC
Molecular Wt:	Predicted band size: 219 kDa

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).

Immunogen: Recombinant protein within human aa 701-1,100 / 1,922.

Positive control: MCF-7 cell lysate, 293 cell lysate, Daudi cell lysate, MCF-7, C2C12.

Subcellular location: Cytoplasm, perinuclear region.

Database links: SwissProt: Q9UPY3 Human | Q8R418 Mouse

Recommended Dilutions:

WB	1:1,000
IF-Cell	10ug/mL
FC	1ug/mL

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: Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders: 0086-571-88062880

Technical: 0086-571-89986345

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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

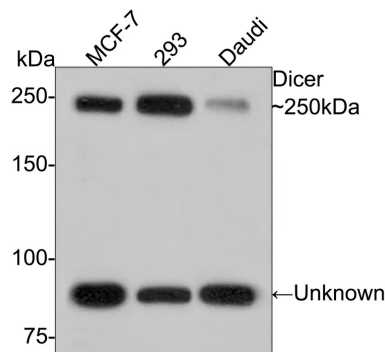
Images

Fig1: Western blot analysis of Dicer on different lysates with Rabbit anti-Dicer antibody (HA500522) at 1/1,000 dilution.

Lane 1: MCF-7 cell lysate

Lane 2: 293 cell lysate

Lane 3: Daudi cell lysate



Lysates/proteins at 10 µg/Lane.

Predicted band size: 219 kDa

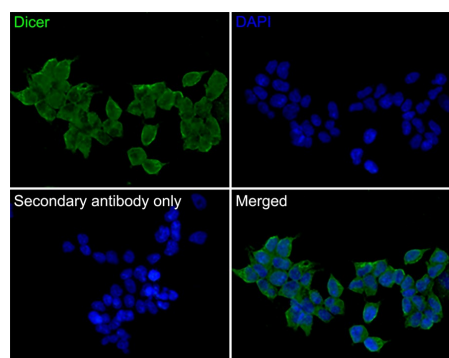
Observed band size: 250 kDa

Exposure time: 2 minutes;

6% SDS-PAGE gel.

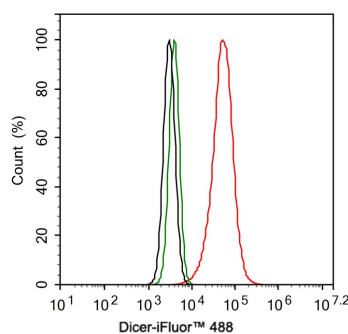
Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA500522) at 1/1,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/300,000 dilution was used for 1 hour at room temperature.

Fig2: Immunocytochemistry analysis of MCF-7 cells labeling Dicer with Rabbit anti-Dicer antibody (HA500522) at 10ug/mL dilution.



Cells were fixed in 4% paraformaldehyde for 10 minutes at 37 °C, permeabilized with 0.05% Triton X-100 in PBS for 20 minutes, and then blocked with 2% negative goat serum for 30 minutes at room temperature. Cells were then incubated with Rabbit anti-Dicer antibody (HA500522) at 10ug/mL dilution in 2% negative goat serum overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Fig3: Flow cytometric analysis of C2C12 cells labeling Dicer.



Cells were fixed and permeabilized. Then stained with the primary antibody (HA500522, 1ug/ml) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4 °C for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody (HA1121) at 1/1,000 dilution for 30 minutes at +4 °C. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

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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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