

# Anti-Dicer [13D6]

**Catalogue number:** 153517

**Sub-type:** Primary antibody

**Images:**

## Contributor

**Inventor:**

**Institute:** Clonogene LLC

**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** Anti-Dicer [13D6]

**Alternate name:** Endoribonuclease Dicer

**Class:** Monoclonal

**Conjugate:** Unconjugated

**Description:** Dicer is an endoribonuclease in the RNase III family that cleaves double-stranded RNA (dsRNA) and pre-microRNA (miRNA) into short double-stranded RNA fragments called small interfering RNA (siRNA) about 20-25 nucleotides long, usually with a two-base overhang on the 3' end. Dicer contains two RNase III domains and one PAZ domain; the distance between these two regions of the molecule is determined by the length and angle of the connector helix and determines the length of the siRNAs it produces. Dicer catalyzes the first step in the RNA interference pathway and initiates formation of the RNA-induced silencing complex (RISC), whose catalytic component argonaute is an endonuclease capable of degrading messenger RNA (mRNA) whose sequence is complementary to that of the siRNA guide strand. The human version of this gene is DICER1. The determination of Dicer expression is of critical importance in the diagnosis of human cancer. Dicer can be used to identify whether tumors are present within the body based on the expression level of the enzyme. A study showed that many patients that had cancer had decreased expression levels of Dicer. The same study showed that lower Dicer expression correlated with lower patient survival length. Monoclonal 13D6 is the classic antibody for the analysis of Dicer.

**Purpose:**

**Parental cell:**

**Organism:**

**Tissue:**

**Model:**

**Gender:**

**Isotype:** IgG1

**Reactivity:**

Human

**Selectivity:**

**Host:** Mouse

**Immunogen:** Synthetic peptide

**Immunogen UNIPROT ID:**

**Sequence:**

**Growth properties:**

**Production details:**

**Formulation:**

**Recommended controls:**

**Bacterial resistance:**

**Selectable markers:**

**Additional notes:**

## Target details

**Target:** Dicer

**Target alternate names:**

**Target background:** Dicer is an endoribonuclease in the RNase III family that cleaves double-stranded RNA (dsRNA) and pre-microRNA (miRNA) into short double-stranded RNA fragments called small interfering RNA (siRNA) about 20-25 nucleotides long, usually with a two-base overhang on the 3' end. Dicer contains two RNase III domains and one PAZ domain; the distance between these two regions of the molecule is determined by the length and angle of the connector helix and determines the length of the siRNAs it produces. Dicer catalyzes the first step in the RNA interference pathway and initiates formation of the RNA-induced silencing complex (RISC), whose catalytic component argonaute is an endonuclease capable of degrading messenger RNA (mRNA) whose sequence is complementary to that of the siRNA guide strand. The human version of this gene is DICER1. The determination of Dicer expression is of critical importance in the diagnosis of human cancer. Dicer can be used to identify whether tumors are present within the body based on the expression level of the enzyme. A study showed that many patients that had cancer had decreased expression levels of Dicer. The same study showed that lower Dicer expression correlated with lower patient survival length. Monoclonal 13D6 is the classic antibody for the analysis of Dicer.

**Molecular weight:**

**Ic50:**

## Applications

**Application:** ChIP ; IHC ; WB

**Application notes:**

## Handling

**Format:** Liquid

**Concentration:**

**Passage number:**

**Growth medium:**

**Temperature:**

**Atmosphere:**

**Volume:**

**Storage medium:**

**Storage buffer:**

**Storage conditions:**

**Shipping conditions:** Shipping at 4° C

## Related tools

**Related tools:**

## References

**References:**

CancerTools.org