Dicer Antibody

**Applications**

- **W, IP**
  - Endogenous

**Species Cross-Reactivity**

- **H**

**Molecular Wt.**

- 220 kDa

**Source**

- Rabbit**

**Background:** Dicer is a member of the RNase III family that specifically cleaves double-stranded RNAs to generate microRNAs (miRNAs) (1). After long primary transcript pri-miRNAs are processed to stem-looped pre-miRNAs by Drosha (2), pre-miRNAs are transported to the cytoplasm and further processed by Dicer to produce 22-nucleotide mature miRNAs (3). The mature miRNA then becomes a part of the RNA-Induced Silencing Complex (RISC) and can bind to the 3′UTR of the target miRNA (3).

**Specificity/Sensitivity:** Dicer Antibody detects endogenous levels of total Dicer protein.

**Source/Purification:** Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence of human Dicer. Antibodies are purified by protein A and peptide affinity chromatography.

**Background References:**


**Recommended Antibody Dilutions:**

- Western blotting 1:1000
- Immunoprecipitation 1:50

**Storage:** Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

**Recommended Antibody Dilutions:**

- Western blotting 1:1000
- Immunoprecipitation 1:50

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

Entrez-Gene ID #23405
Swiss-Prot Acc. #Q9UPY3

### Applications

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**Applications Key:**

- W—Western
- IP—Immunoprecipitation
- IH—Immunohistochemistry
- CIP—ChIP
- IF—Immunofluorescence
- F—Flow cytometry
- E—ELISA

**Species Cross-Reactivity Key:**

- H—human
- M—mouse
- R—rat
- Hm—hamster
- Mm—monkey
- M—mink
- C—chicken
- Dm—D. melanogaster
- X—Xenopus
- Z—zebrafish
- B—bovine
- Dg—dog
- Pg—pig
- Sc—S. cerevisiae
- Ce—C. elegans
- Hr—horse
- All—all species expected

**IMPORTANT:** For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

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