10320 Camino Santa Fe, Suite G
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Dicer Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10530

Specification

Dicer Antibody - Product Information

Application	**WB**
Primary Accession	Q9UPY3
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**218682**

Dicer Antibody - Additional Information

Gene ID 23405

Application & Usage	**Western blotting (0.5-4 µg/ml). The optimal concentrations should be determined individually.**

Other Names
DCR1 , Dicer , HERNA , KIAA0928

Target/Specificity
Dicer

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
100 µg (0.2 mg/ml) affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions
Dicer Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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Dicer Antibody - Protein Information

Name DICER1

Synonyms DICER, HERNA, KIAA0928

Function
Double-stranded RNA (dsRNA) endoribonuclease playing a central role in short dsRNA-mediated post-transcriptional gene silencing. Cleaves naturally occurring long dsRNAs and short hairpin pre-microRNAs (miRNA) into fragments of twenty-one to twenty-three nucleotides with 3' overhang of two nucleotides, producing respectively short interfering RNAs (siRNA) and mature microRNAs. SiRNAs and miRNAs serve as guide to direct the RNA-induced silencing complex (RISC) to complementary RNAs to degrade them or prevent their translation. Gene silencing mediated by siRNAs, also called RNA interference, controls the elimination of transcripts from mobile and repetitive DNA elements of the genome but also the degradation of exogenous RNA of viral origin for instance. The miRNA pathway on the other side is a mean to specifically regulate the expression of target genes.

Cellular Location
Cytoplasm. Cytoplasm, perinuclear region

Dicer Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Dicer Antibody - Images

Dicer Antibody - Background

Dicer is an RNaseIII-like enzyme which cleaves double-stranded RNA into 21-23 nucleotide (nt) RNAs. These RNAs are referred to as siRNA (short interfering RNA). It is believed to be essential in siRNA-mediated gene suppression.