

Anti-Dicer Antibody

Catalog # ABO12729

Product Information

Application	WB, IHC-P
Primary Accession	Q9UPY3
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Endoribonuclease Dicer(DICER1) detection. Tested with WB, IHC-P in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	23405
Other Names	Endoribonuclease Dicer, 3.1.26.3, Helicase with RNase motif, Helicase MOI, DICER1, DICER, HERNA, KIAA0928
Calculated MW	218682
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Cytoplasm .
Source	Eukaryota
Protein Name	Endoribonuclease Dicer
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	E.coli-derived human Dicer recombinant protein (Position: M1-N195). Human Dicer shares 94% amino acid (aa) sequence identity with mouse Dicer.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the helicase family. Dicer subfamily.

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

Background

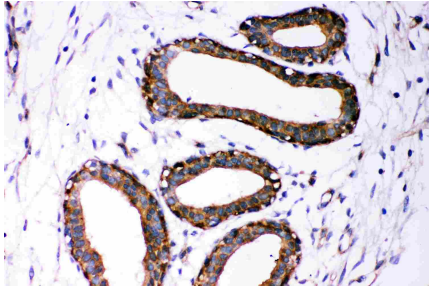
Dicer(DICER1), also known as endoribonuclease Dicer or helicase with RNase motif, is an enzyme that in humans is encoded by the DICER1 gene. It is mapped to 14q32.13. The DICER1 gene, a member of the ribonuclease III (RNaseIII) family, is involved in the generation of microRNAs (miRNAs), which modulate gene expression at the posttranscriptional level. DICER1 possesses an RNA helicase motif containing a DEXH box in its amino terminus and an RNA motif in the carboxy terminus. DICER, also known as helicase-MOI, is required by the RNA interference and small temporal RNA (stRNA) pathways to produce the active small RNA component that represses gene expression. In addition, DICER1 is required for formation of the RNA induced silencing complex (RISC). It also cleaves double-stranded RNA to produce short interfering RNAs (siRNAs) which target the selective destruction of complementary RNAs.

Images



Anti- Dicer antibody, ABO12729, Western blottingAll lanes: Anti Dicer (ABO12729) at 0.5ug/mlWB: Recombinant Human Dicer Protein 0.5ngPredicted bind size: 39KDObserved bind size: 39KD

Anti- Dicer antibody, ABO12729, Western blottingAll lanes: Anti Dicer (ABO12729) at 0.5ug/mlLane 1: Hela Whole Cell Lysate at 40ugLane 2: MCF-7 Whole Cell Lysate at 40ugPredicted bind size: 217KDObserved bind size: 217KD



Anti- Dicer antibody, ABO12729, IHC(P)IHC(P): Human Mammary Cancer Tissue

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