

**Dicer1 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP1901b****Specification**

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**Dicer1 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q9UPY3](#)**Dicer1 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 23405**Other Names**

Endoribonuclease Dicer, Helicase with RNase motif, Helicase MOI, DICER1, DICER, HERNA, KIAA0928

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP1901b](/product/products/AP1901b) was selected from the C-term region of human Dicer1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**Dicer1 Antibody (C-term) Blocking Peptide - 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

**Dicer1 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**Dicer1 Antibody (C-term) Blocking Peptide - Images****Dicer1 Antibody (C-term) Blocking Peptide - Background**

Dicer1 possesses an RNA helicase motif containing a DEXH box in its amino terminus and an RNA motif in the carboxy terminus. The encoded protein functions as a ribonuclease and is required by the RNA interference and small temporal RNA (stRNA) pathways to produce the active small RNA component that represses gene expression.

**Dicer1 Antibody (C-term) Blocking Peptide - References**

Vermeulen, A., et al., RNA 11(5):674-682 (2005).Fukagawa, T., et al., Nat. Cell Biol. 6(8):784-791 (2004).Zhang, H., et al., Cell 118(1):57-68 (2004).Handa, V., et al., Nucleic Acids Res. 31(21):6243-6248 (2003).Kawasaki, H., et al., Nucleic Acids Res. 31(3):981-987 (2003).