

Dcr-1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP1961c**Specification**

Dcr-1 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [P34529](#)**Dcr-1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 176138**Other Names**

Endoribonuclease dcr-1, 3126-, dcr-1

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP1961c](/product/products/AP1961c) was selected from the Center region of human Dcr-1. 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.

Dcr-1 Antibody (Center) Blocking Peptide - Protein Information**Name** dcr-1 {ECO:0000303|PubMed:11641272, ECO:0000312|WormBase:K12H4.8}**Function**

Component of the ERI/DICER complex which is involved in processing amplified double-stranded RNA (dsRNA) intermediates during small-RNA-mediated gene-silencing or RNA interference (RNAi) (Probable). Involved in cleaving dsRNA in the RNAi pathway (PubMed: [11641272](http://www.uniprot.org/citations/11641272), PubMed: [20223951](http://www.uniprot.org/citations/20223951)). It produces 21 to 23 bp dsRNAs (siRNAs) which target the selective destruction of homologous RNAs (PubMed: [11641272](http://www.uniprot.org/citations/11641272), PubMed: [20223951](http://www.uniprot.org/citations/20223951)). Seems to process the precursor of the small temporal RNA let-7 which is involved in developmental timing (PubMed: [11641272](http://www.uniprot.org/citations/11641272) target=" _blank">11641272). Required for avoidance behavior induced by small RNAs derived from pathogenic bacteria such as P.aeruginosa (PubMed: 32908307). Involved in innate immunity through its role in small RNA processing.

Dcr-1 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

Dcr-1 Antibody (Center) Blocking Peptide - Images

Dcr-1 Antibody (Center) Blocking Peptide - Background

The Dcr-1 gene encodes a bidentate ribonuclease that is homologous to E. coli RNase III. Dcr-1 is required both for RNA interference and for synthesis of small developmental RNAs. Dcr-1 interacts in vivo with RDE-4, a double-stranded RNA (dsRNA) binding protein required for RNAi that interacts with trigger dsRNAs and may function to deliver dsRNAs to Dcr-1 for endonucleolytic processing.

Dcr-1 Antibody (Center) Blocking Peptide - References

Duchaine TF, et al. 2006. Cell 124:343-354. Denli AM, et al. 2004. Nature 432:231-235. Tabara H, et al. 2002. Cell 109:861-871. Grishok A, et al. 2001. Cell 106:23-34. Knight SW, et al. 2001. Science 293:2269-2271.