

**Dcr-1 Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP1961c****Specification**

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**Dcr-1 Antibody (Center) - Product Information**

Primary Accession	<a href="#">P34529</a>
Reactivity	<b>C.Elegans</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Antigen Region	<b>1068-1097</b>

**Dcr-1 Antibody (Center) - Additional Information****Gene ID** 176138**Other Names**

Endoribonuclease dcr-1, 3126-, dcr-1

**Target/Specificity**

This Dcr-1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1068-1097 amino acids of CAEEL Dcr-1.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Dcr-1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**Dcr-1 Antibody (Center) - 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](#), PubMed:[20223951](#)). It produces 21 to 23 bp dsRNAs (siRNAs) which target the selective destruction of homologous RNAs (PubMed:[11641272](#), PubMed:[20223951](#)). Seems to process the precursor of the small temporal RNA let-7 which is involved in developmental timing (PubMed:[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) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **Dcr-1 Antibody (Center) - Images**

### **Dcr-1 Antibody (Center) - 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) - 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.