



Rabbit anti-Arabidopsis thaliana DCL3 (C-term) Polyclonal Antibody (CABT-Z053R)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Antibodies were produced by immunizing animals with a GST-fusion protein containing the C-terminal region of arabidopsis thaliana DCL3.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Arabidopsis thaliana
Purification	Antigen affinity purification
Conjugate	Unconjugated
Applications	WB Recommended dilution: WB: 1:500-1:2,000 (detect endogenous protein*)
Molecular Weight	177 kDa
Preparation	Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the C-terminal region of arabidopsis thaliana DCL3 (At3g43920).
Format	Liquid
Concentration	Lot specific
Size	100 µl
Buffer	Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN ₃ .
Preservative	0.01% NaN ₃

Storage	Store at -20°C. Stable for 6 months from date of receipt.
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Ship	Wet ice
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BACKGROUND

Introduction	DCL3 is a ribonuclease (RNase) III involved in RNA-mediated post-transcriptional gene silencing (PTGS). DCL3 is involved in the processing of repeat-associated small interfering RNAs (ra-siRNAs, derived from heterochromatin and DNA repeats such as transposons) by cleaving small dsRNAs into 24 nucleotide ra-siRNAs. DCL3 plays a role in antiviral RNA silencing. DCL3 is involved in the production of viral siRNAs derived from the cabbage leaf curl virus (CaLCuV) and tobacco rattle virus (TRV). DCL3 can be targeted by the viral silencing suppressor (VSR) protein 2b of the cucumber mosaic virus (CMV) that inactivates DCL3 function in RNA silencing. DCL3 acts redundantly with DICER-LIKE 1 (DCL1) to promote flowering via repression of FLOWERING LOCUS C (FLC). DCL3 does not seem to be involved in microRNAs (miRNAs) processing.
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Keywords	Endoribonuclease Dicer homolog 3;Dicer-like protein 3;AtDCL3;At3g43920;T15B3.60
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GENE INFORMATION

Gene Name	DCL3
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Entrez Gene ID	823508
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UniProt ID	Q9LXW7
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