



Rabbit anti-Arabidopsis thaliana AGO4 (N-term) Polyclonal Antibody (CABT-Z017R)

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 N-terminal region of arabidopsis thaliana AGO4.
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	Predicted M.W.: 103 kDa; Observed M.W.: 103, 120, 150 kDa
Preparation	Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the N-terminal region of arabidopsis thaliana AGO4 (At2g27040).
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	AGO4 is a member of a class of PAZ/PIWI domain containing proteins involved in small interfering RNA (siRNA)-mediated gene silencing. AGO4 is a component of the RISC complex that associate with the siRNA pathway involved in direct cytosine methylation at endogenous DNA repeats. AGO4 forms a AGO4/NRPE1/siRNA complex in cajal body, facilitating its function in RNA-directed gene silencing of target loci. AGO4 is also required for CpNpG and asymmetric DNA methylation as well as histone H3 'Lys-9' methylation (H3K9me) at SUP and SN1 loci. Loss of function mutations have reduced site specific CpNpG and CpHpH methylation and increased susceptibility to bacterial pathogens.
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Keywords	ARGONAUTE 4;OCP11;OVEREXPRESSOR OF CATIONIC PEROXIDASE 11
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GENE INFORMATION

Gene Name	AGO4
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Entrez Gene ID	817246
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UniProt ID	Q9ZVD5
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