



# Rabbit anti-Arabidopsis thaliana AGO2 (N-term) Polyclonal Antibody (CABT-Z014R)

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

## PRODUCT INFORMATION

<b>Immunogen</b>	Antibodies were produced by immunizing animals with a GST-fusion protein containing the N-terminal region of arabidopsis thaliana AGO2.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Arabidopsis thaliana
<b>Purification</b>	Antigen affinity purification
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB Recommended dilution: WB: 1:500-1:2,000 (detect endogenous protein*)
<b>Molecular Weight</b>	113 kDa
<b>Preparation</b>	Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the N-terminal region of arabidopsis thaliana AGO2 (AT1G31280).
<b>Format</b>	Liquid
<b>Concentration</b>	Lot specific
<b>Size</b>	100 µl
<b>Buffer</b>	Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN <sub>3</sub> .
<b>Preservative</b>	0.01% NaN <sub>3</sub>

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

<b>Introduction</b>	AGO2 is involved in RNA-mediated post-transcriptional gene silencing (PTGS). AGO2 is a main component of the RNA-induced silencing complex (RISC) that binds to a short guide RNA such as microRNA (miRNA) or small interfering RNA (siRNA). RISC uses the mature miRNA or siRNA as a guide for slicer-directed cleavage of homologous mRNAs to repress gene expression. AGO2 associates mainly with siRNAs of 21 nucleotide in length and preferentially recruits small RNAs with a 5' terminal adenosine. AGO2 is probably involved in antiviral RNA silencing. AGO2 is targeted by turnip yellows virus (TuYV) protein P0 (via F-box-like domain) for probable proteasome degradation and thereby inactivating AGO2 function in RNA silencing. AGO2 is required to direct NERD-dependent DNA methylation and silencing.
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<b>Keywords</b>	Protein argonaute 2;At1g31280
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## GENE INFORMATION

<b>Gene Name</b>	AGO2
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<b>Entrez Gene ID</b>	<a href="#">840016</a>
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<b>UniProt ID</b>	<a href="#">Q9SHF3</a>
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