



Rabbit anti-Arabidopsis thaliana SIZ1 (C-term) Polyclonal Antibody (CABT-Z139R)

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 SIZ1.
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	97 kDa
Preparation	Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the C-terminal region of arabidopsis thaliana SIZ1 (At5g60410).
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	SIZ1 is an E3 SUMO protein ligase involved in regulation processes. SIZ1 mediates SUMO/attachment to PHR1, a MYB transcriptional activator controlling the phosphate deficiency responses. SIZ1 also functions as an upstream negative regulator of salicylic acid (SA) accumulation and subsequent SA-mediated systemic acquired resistance (SAR) signaling. SIZ1 is probably not involved in jasmonic acid (JA)-mediated defense response. SIZ1 participates in abiotic stress-induced sumoylation. SIZ1 also controls heat shock-induced SUMO1 and SUMO2 conjugation and facilitates basal thermotolerance. SIZ1 is involved in freezing tolerance by mediating sumoylation of ICE1, a transcription activator of the cold signaling regulator CBF3/DREB1A. SIZ1 acts as a positive regulator of drought stress tolerance, and a floral repressor that promotes FLC expression by repressing FLD activity through sumoylation. Furthermore, SIZ1 acts as negative regulator of abscisic acid (ABA) signaling through ABI5 sumoylation.
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Keywords	E3 SUMO-protein ligase SIZ1;SIZ1;At5g60410
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GENE INFORMATION

Gene Name	SIZ1
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Entrez Gene ID	836163
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UniProt ID	Q680Q4
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