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SIZ1 (C) Antibody, Rabbit Polyclonal

Cat#: R3520-2

Quantity: 100 ul

Predicted | Observed M.W.: 97 | 130 kDa

Lot#: Refer to vial

Application: WB

Uniprot ID: Q680Q4

Background:

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.

Other Names:

E3 SUMO-protein ligase SIZ1

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the C-terminal region of *arabidopsis thaliana* SIZ1 (At5g60410). Antibodies were purified by affinity purification using immunogen.

Storage Buffer and Condition:

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN₃. Store at -20 °C. Stable for 6 months from date of receipt.

Tested Applications:

WB: 1:500-1:2,000 (detect endogenous protein*)

*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

Species Specificity:

Arabidopsis thaliana

Product Data:

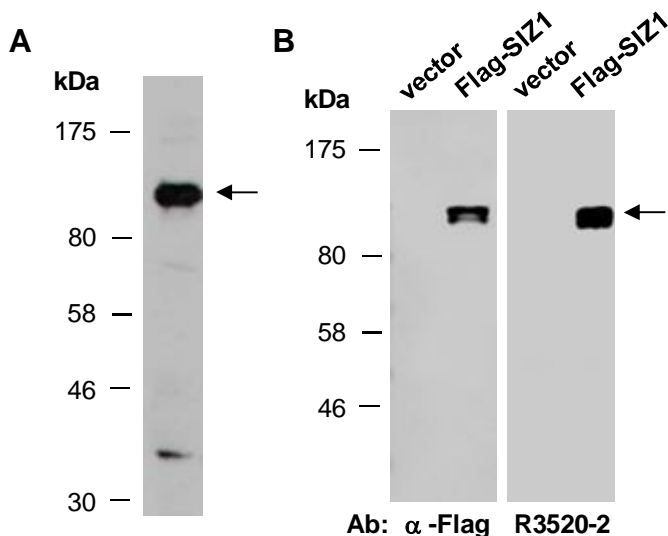


Fig 1. A) Western blot analysis of total protein extracts from wild type arabidopsis leaves, using anti-SIZ1 (C) (R3520-2) at RT for 2 h.

B) Same as A except that protein extracts from human 293T cells transfected with the vector control or Flag-SIZ1 were used and filters were probed with the indicated Abs.