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PIN1 (C1) Antibody, Rabbit Polyclonal

Cat#: R2114-2

Lot#: Refer to vial

Quantity: 100 ul

Application: WB

Predicted I Observed M.W.: 67 kDa

Uniprot ID: Q9C6B8

Background:

PIN1 is an auxin efflux carrier involved in shoot and root development. It is involved in the maintenance of embryonic auxin gradients. Loss of function severely affects organ initiation, pin1 mutants are characterised by an inflorescence meristem that does not initiate any flowers, resulting in the formation of a naked inflorescence stem. PIN1 is involved in the determination of leaf shape by actively promoting development of leaf margin serrations. In roots, the protein mainly resides at the basal end of the vascular cells, but weak signals can be detected in the epidermis and the cortex. Expression levels and polarity of this auxin efflux carrier change during primordium development suggesting that cycles of auxin build-up and depletion accompany, and may direct different stages of primordium development. PIN1 action on plant development does not strictly require function of PGP1 and PGP19 proteins.

Other Names:

ARABIDOPSIS THALIANA PIN-FORMED 1, ATPIN1, PIN-FORMED 1, PIN1, Auxin efflux carrier component 1

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the C-terminal region of *arabidopsis thaliana* PIN1 (AT1G73590). 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% NaN_3. Store at -20 °C. Stable for 6 months from date of receipt.

Species Specificity:

Arabidopsis thaliana

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.

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Product Data:

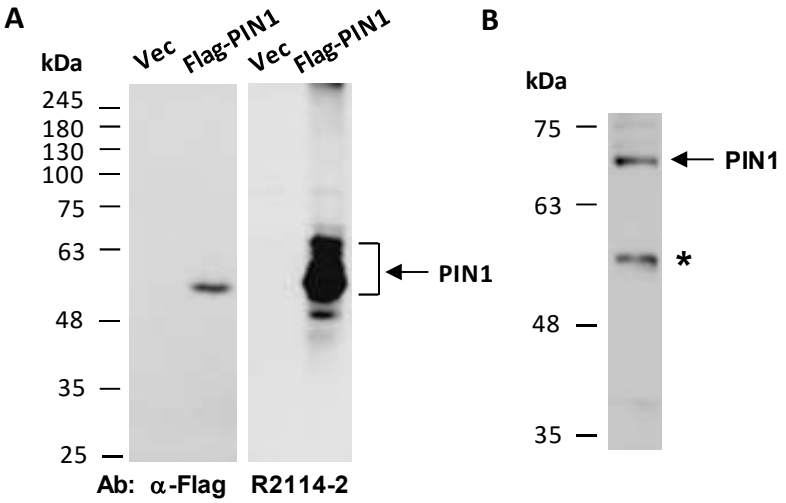

Fig 1. A) *Western blot of protein extracts from human 293T cells transfected with a vector control (Vec) or Flag-PIN1 (AT1G73590), using indicated Abs at RT for 2 h. Most of the 67 kD full-length PIN1 was degraded into a 50 kD protein when overexpressed.* ***B)*** *Western blot of protein extracts from wild type arabidopsis roots; using anti-PIN1 (C1) (R2114-2) at RT for 2 h. The 50 kD band indicated by * may represent a truncated PIN1.*