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PIF4 (C) Antibody, Rabbit Polyclonal

Cat#: R2534-2b

Lot#: Refer to vial

Quantity: 100 ul

Application: WB

Predicted I Observed M.W.: 48 I 72 kDa

Uniprot ID: Q8W2F3

Background:

Transcription factor PIF4 is isolated as a semidominant mutation defective in red -light responses. PIF4 is a nuclear localized bHLH protein that interacts with active PhyB protein and it negatively regulates phyB mediated red light responses. PIF4 is also involved in shade avoidance response. PIF4 may regulate the expression of a subset of genes involved in cell expansion by binding to the G-box motif. Protein expression of PIF4 is negatively regulated by PhyB.

Other Names:

Transcription factor PIF4, Basic helix-loop-helix protein 9, AtbHLH9, bHLH 9, Phytochrome-interacting factor 4, Short under red-light 2, Transcription factor EN 102, bHLH transcription factor bHLH009, BHLH9, EN102, SRL2, MFL8.13

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the C-terminal region of *arabidopsis thaliana* PIF4 (At2g43010). 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: 1:1,000-1:3,000 (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:

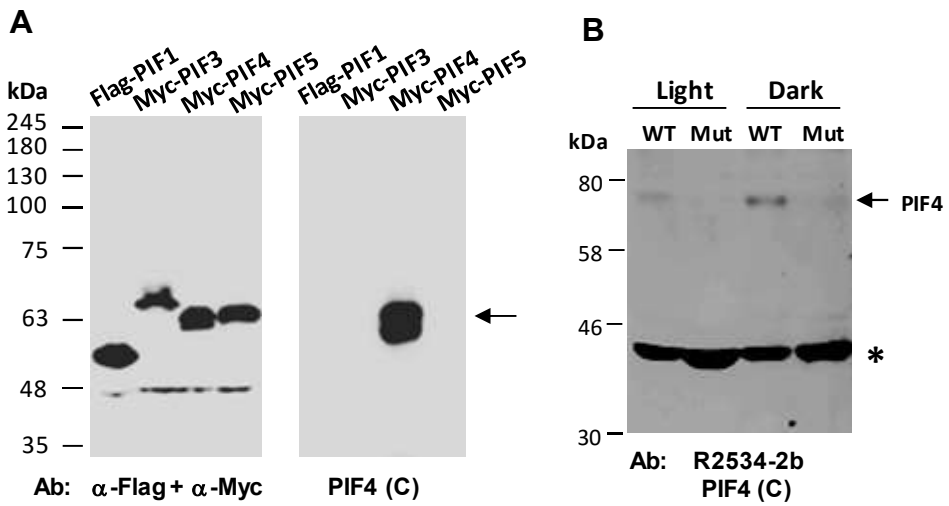

Fig 1. A) *Western blot of total protein extracts from human 293T cells transfected with Flag-tagged Arabidopsis PIF1, Myc-tagged Arabidopsis PIF3, PIF4 or PIF5, using a mixture of anti-Flag and anti-Myc Abs or anti-PIF4 (C) (R2534-2b) Ab as indicated at RT for 2h.* ***B)*** *Western blot analysis of equal amounts of protein extracts from wild type (WT) or PIF4 deficient mutant (Mut) arabidopsis leaves harvested during the day time under the long-day photoperiod conditions (Light) or at the end of night before light under the short-day photoperiod conditions (Dark) using anti-PIF4 (C) (R2534-2b) at RT for 2 h. The observed M.W. of PIF4 under such conditions is approximately 72 kD (Nozue et al., 2007, Nature, 448:358). * indicates a non-specific protein serving as loading controls.*

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