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PIF4 (C2) Antibody, Rabbit Polyclonal

Cat#: R2534-1

Quantity: 100 ul

Predicted | Observed M.W.: 48 | 65 kDa

Lot#: Refer to vial

Application: WB

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% NaN₃. 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.

Product Data:

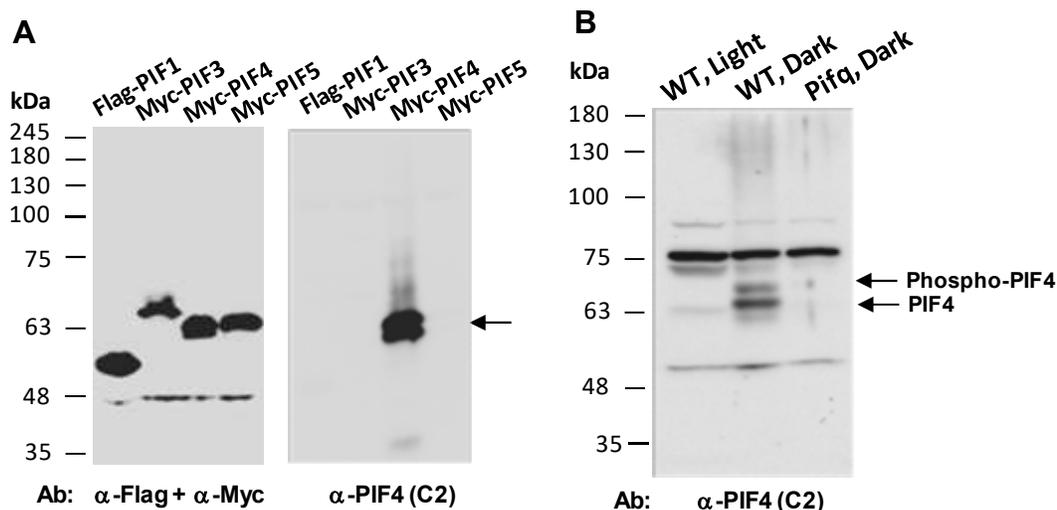


Fig 1. A) Specificity test of PIF4(C2) antibody. Western blot of total protein extracts from human 293T cells transfected with Flag-tagged Arabidopsis PIF1, Myc-tagged Arabidopsis PIF3, PIF4 or PIF5, using a mixture of anti-Flag and anti-Myc Abs (1:1000 dilution) or anti-PIF4 (C2) (R2534-1) Ab (1:10,000 dilution) as indicated at RT for 2h. **B)** Western blot analysis of protein extracts prepared from adult leaves of wild type Arabidopsis plants grown under light (WT, Light) or grown in dark for 4 days (WT, Dark) or pifq mutant (PIF1/3/4/5-deficient mutant) grown in dark for 4 days (Pifq, Dark), using anti-PIF4 (C2) (R2534-1) (1:1000 dilution) at RT for 2 h. All protein samples were prepared using 4xSDS sample buffer.