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## PIF4 (N3) Antibody, Rabbit Polyclonal

**Cat#:** R2534-4

**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 N-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<sub>3</sub>. Store at -20 °C. Stable for 6 months from date of receipt.

### **Species Specificity:**

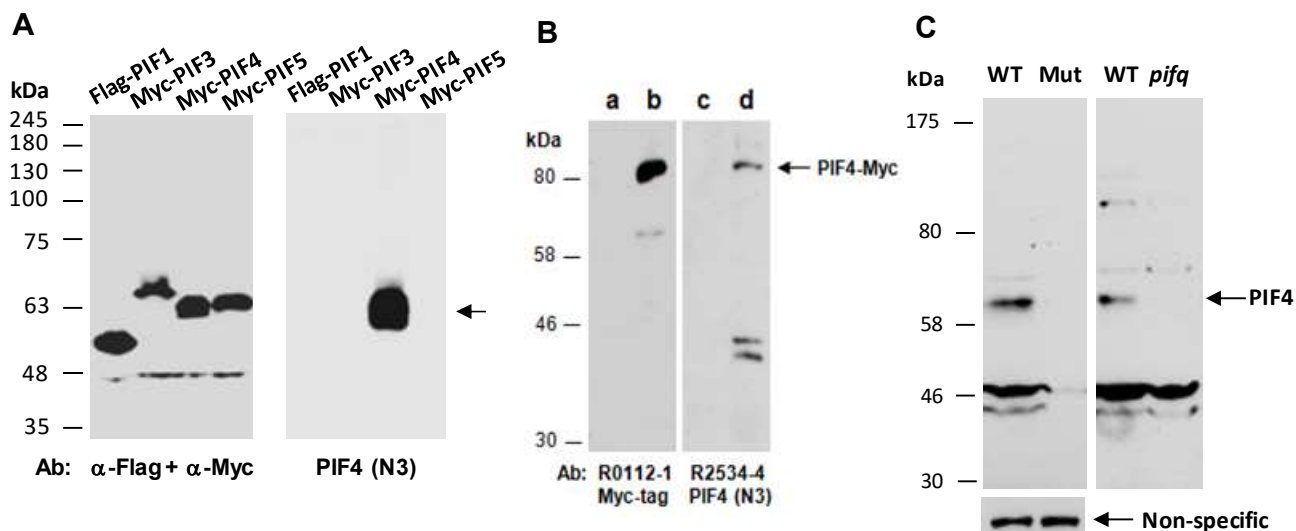
Arabidopsis thaliana

### **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)** 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 (N3) (R2534-4) Ab as indicated at RT for 2h. **B)** Western blot of total protein extracts from wild type *arabidopsis* leaves without (a,c) or with (b,d) overexpression of PIF4-Myc, which contains 9 tandem Myc-tag (Sakuraba Y. et. Al., 2014, Nat Commun 5:4636), using indicated Abs at RT for 2h. **C)** Same as **B** except that protein samples were prepared from wild type (WT) or PIF4 mutant (Mut; SALK\_140393C) *arabidopsis* grown in dark for 4 days (left panel), or WT or *pifq* mutant (PIF1/3/4/5 –deficient mutant) grown in dark for 2 days (right panel); using anti-PIF4 (N3) (R2534-4) at RT for 2 h.