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HY5 (N2) Antibody, Rabbit Polyclonal

Cat#: R1245-2

Quantity: 100 ul

Predicted | Observed M.W.: 18 | 18, 30 kDa

Lot#: Refer to vial

Application: WB

Uniprot ID: O24646

Background:

Transcription factor HY5 is a nuclear protein that belongs to the bZIP family, which promotes photomorphogenesis in light. HY5 acts downstream of the light receptor network and directly affects transcription of light-induced genes. HY5 is specifically involved in the blue light specific pathway, suggesting that it participates in transmission of cryptochromes (CRY1 and CRY2) signals to downstream responses. In darkness, its degradation prevents the activation of light-induced genes.

Other Names:

Transcription factor HY5, Protein LONG HYPOCOTYL 5, bZIP transcription factor 56, AtbZIP56, BZIP56

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the N-terminal region of *arabidopsis thaliana* HY5 (At5g11260). 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: 1:1,000-1:3,000 (detect endogenous protein*)

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

Product Data:

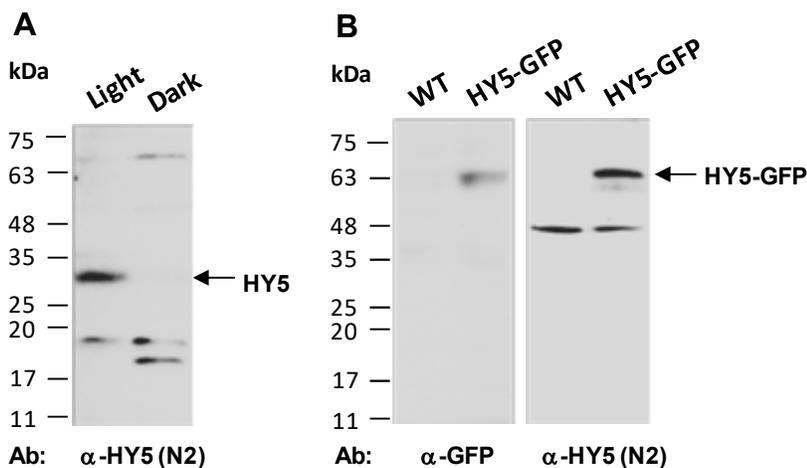


Fig 1. A) Western blot analysis of total protein extracts from wild type *Arabidopsis* grown under light (Light) or grown in dark for 4 days (Dark), using anti-HY5 (N2) (R1245-2) at RT for 2 hr. The observed M.W. for HY5 is 30 kD [Osterlund M. et al., (2000) *Nature* 405:462]. **B)** Western blot analysis of total protein extracts from wild type *Arabidopsis* (WT) or transgenic *Arabidopsis* plants expressing HY5-GFP fusion protein, using anti-GFP (M0802-3a) or anti-HY5 (N2) (R1245-2) at RT for 2 hr as indicated.