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MYC2 (C) Antibody, Rabbit Polyclonal

Cat#: R3500-3

Quantity: 100 ul

Predicted | Observed M.W.: 68 kDa

Lot#: Refer to vial

Application: WB

Uniprot ID: Q39204

Background:

MYC2 is a common transcription factor of light, abscisic acid (ABA), and jasmonic acid (JA) signaling pathways. Together with MYC3 and MYC4, MYC2 controls subsets of JA-dependent responses. MYC2 is also involved in the regulation of ABA-inducible genes under drought stress conditions in cooperation with MYB2. MYC2 can form complexes with all known glucosinolate-related MYBs to regulate glucosinolate biosynthesis. MYC2 binds to the MYC recognition site (5'-CACATG-3'), the G-box (5'-CACNTG-3') and Z-box (5'-ATACGTGT-3') of the promoters. MYC2 binds directly to the promoters of the transcription factors PLETHORA1 (PLT1) and PLT2 and represses their expression. MYC2 is a negative regulator of blue light-mediated photomorphogenic growth and blue- and far-red-light regulated gene expression. In contrast, MYC2 is a positive regulator of lateral root formation. MYC2 regulates sesquiterpene biosynthesis. MYC2 is subjected to proteasome-dependent proteolysis. The presence of the destruction element (DE) of MYC2 involved in turnover is required for the proper function of MYC2 to regulate gene transcription.

Other Names:

Transcription factor MYC2, AtMYC2, Basic helix-loop-helix protein 6, AtbHLH6, bHLH 6, Protein JASMONATE INSENSITIVE 1, R-homologous Arabidopsis protein 1, RAP-1, Transcription factor EN38, Z-box binding factor 1 protein, bHLH transcription factor bHLH006, rd22BP1, BHLH6, EN38, JAI1, JIN1, RAP1, RD22BP1, ZBF1, At1g32640, F6N18.4

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the C-terminal region of *arabidopsis thaliana* MYC2 (AT1G32640). 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:

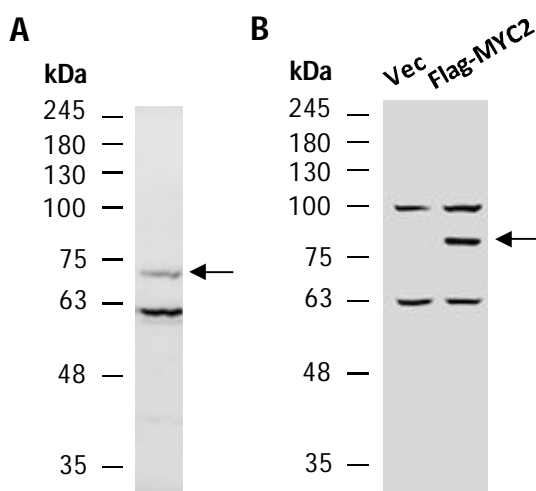


Fig 1. A) Western blot analysis of protein extracts from wild type arabidopsis dry seeds, using anti-MYC2 (C) (R3500-3) at RT for 2 h. **B)** Same as in **A** except that protein extracts were prepared from human 293T cells transfected with a vector control (Vec) or a construct encoding Flag-tagged Arabidopsis MYC2 (Flag-MYC2).