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(818)-707-0392 (Fax)
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APETALA1 (C2) Antibody, Rabbit Polyclonal

Cat#: R3406-2

Quantity: 100 ul

Predicted | Observed M.W.: 30 kDa

Lot#: Refer to vial

Application: WB

Uniprot ID: P35631

Background:

APETALA1 is a transcription factor that promotes early floral meristem identity in synergy with LEAFY. APETALA1 is required subsequently for the transition of an inflorescence meristem into a floral meristem. APETALA1 is indispensable for normal development of sepals and petals in flowers. APETALA1 regulates positively the B class homeotic proteins APETALA3 and PISTILLATA with the cooperation of LEAFY and UFO. APETALA1 interacts with SEPALLATA3 or AP3/PI heterodimer to form complexes that could be involved in genes regulation during floral meristem development. APETALA1 regulates positively AGAMOUS in cooperation with LEAFY. APETALA1 displays a redundant function with CAULIFLOWER in the up-regulation of LEAFY. Together with AGL24 and SVP, APETALA1 controls the identity of the floral meristem and regulates expression of class B, C and E genes. APETALA1 represses flowering time genes AGL24, SVP and SOC1 in emerging floral meristems.

Other Names:

Floral homeotic protein APETALA 1, Agamous-like MADS-box protein AGL7, AGL7, At1g69120, F4N2.9, AGAMOUS-LIKE 7, ATAP1, AP1

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the C-terminal region of *arabidopsis thaliana* APETALA1 (AT1G69120). 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.

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.

Species Specificity:

Arabidopsis thaliana

Product Data:

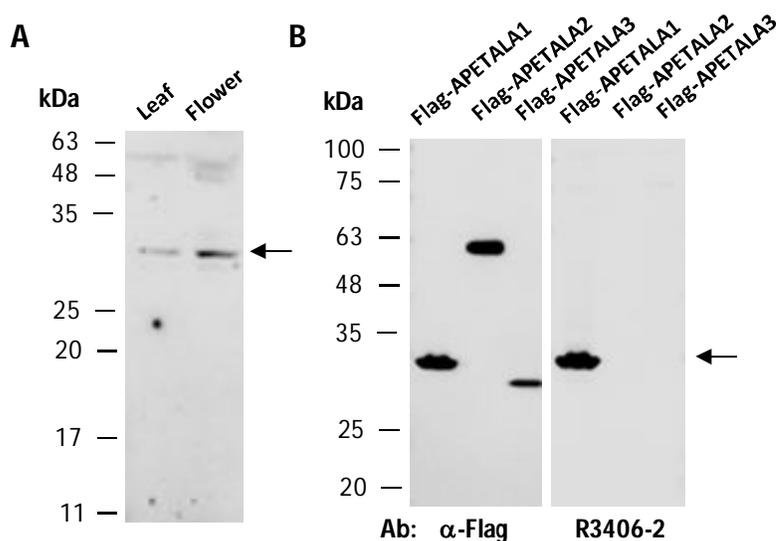


Fig 1. A) Western blot analysis of protein extracts from wild type arabidopsis leaves and flowers, using anti-APETALA1 (C2) (R3406-2) at RT for 2 h. **B)** Western blot of protein extract from human 293T cells transfected with Flag-tagged APETALA1 (AT1G69120), APETALA2 (AT4G36920) or APETALA3 (AT3G54340); using the indicated Abs at RT for 2 h.