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FLC (N2) Antibody, Rabbit Polyclonal

Cat#: R1249-2

Quantity: 100 ul

Predicted | Observed M.W.: 22 kDa

Lot#: Refer to vial

Application: WB

Uniprot ID: Q5Q9J1

Background:

MADS-box protein encoded by FLOWERING LOCUS C (FLC) is a transcription factor that functions as a repressor of floral transition and contributes to temperature compensation of the circadian clock. The expression of FLC is downregulated during cold treatment. Vernalization, FRI and the autonomous pathway all influence the state of FLC chromatin. Both maternal and paternal alleles are reset by vernalization, but their earliest activation differs in timing and location. Histone H3 trimethylation at lysine 4 and histone acetylation are associated with active FLC expression, whereas histone deacetylation and histone H3 dimethylation at lysines 9 and 27 are involved in FLC repression. Expression is also repressed by two small RNAs (30- and 24-nt) complementary to the FLC sense strand 3' to the polyA site. The small RNAs are most likely derived from an antisense transcript of FLC.

Other Names:

AGAMOUS-LIKE 25, AGL25, FLF, FLOWERING LOCUS C, FLOWERING LOCUS F, REDUCED STEM BRANCHING 6, RSB6

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the N-terminal region of *arabidopsis thaliana* FLC (At5g10140). 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:

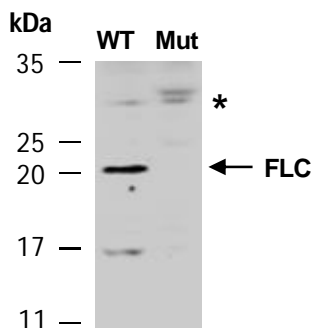


Fig 1. Western blot of total protein extracts from wild type (WT) or FLC-deficient mutant (Mut) Arabidopsis leaves; using anti-FLC (N2) (R1249-2) at RT for 2 h. * indicates the 30 kD non-specific bands as the loading control.