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## AMP1 (C) Antibody, Rabbit Polyclonal

Cat#: R3072-2

Quantity: 100 ul

Predicted | Observed M.W.: 77 | 120 kDa

Lot#: Refer to vial

Application: WB

Uniprot ID: Q9M1S8

### Background:

ALTERED MERISTEM PROGRAM 1 (AMP1) is a glutamate carboxypeptidase, which is a single-pass type II membrane protein. AMP1 may modulate the level of one or more small signaling molecules that have a role in regulating meristem function. AMP1 may also play a role in balancing and restricting the meristem-promoting activity of auxin signaling. Various alleles of AMP1 show-increased cotyledon number and rate of leaf initiation, show transformation of leaves to cotyledons, altered flowering time and photomorphogenesis and an increased level of cytokinin biosynthesis. AMP1 is involved in ethylene enhanced hypocotyl elongation in the light. The translation inhibition, but not the mRNA cleavage activity, of Arabidopsis miRNAs requires AMP1 (Li et al., Cell, 2013, 153:562).

### Other Names:

ALTERED MERISTEM PROGRAM 1, AMP1, ATAMP1, CONSTITUTIVE MORPHOGENESIS 2, COP2, HAUPTLING, HPT, MFO1, MULTIFOLIA, PRIMORDIA TIMING, PT, Probable glutamate carboxypeptidase 2

### Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the C-terminal region of *arabidopsis thaliana* AMP1 (At3g54720). 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:

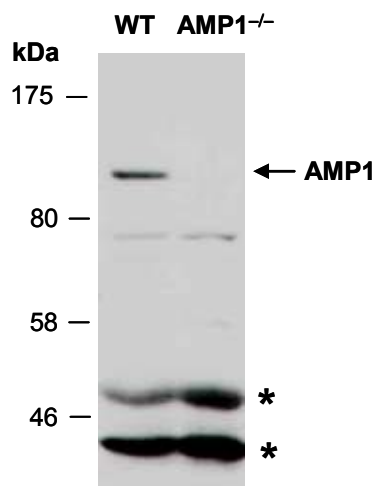
WB: 1:1,000-1:3,000 (detect endogenous protein\*)

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

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**Product Data:**



**Fig 1.** Western blot of equal amounts of protein extracts from WT or AMP1<sup>-/-</sup> (AMP deficient mutant) *Arabidopsis* tissues using anti-AMP1 (C1) (R3072-2) at RT for 2 h. The observed M.W. of AMP1 is approximately 120 kD. \* indicates non-specific proteins.