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JAR1 (M) Antibody, Rabbit Polyclonal

Cat#: R3244-1

Quantity: 100 ul

Predicted I Observed M.W.: 55-64 I 65-78 kDa

Lot#: Refer to vial

Application: WB

Uniprot ID: Q9SKE2

Background:

Protein JASMONATE RESISTANT 1 (JAR1) catalyzes the synthesis of jasmonates-amino acid conjugates by adenylation; can use Ile, Val, Leu and Phe as conjugating amino acids on jasmonic acid (JA) and 9,10-dihydro-JA substrates, and to a lower extent, on 3-oxo-2-(2Z-pentenyl)-cyclopentane-1-butyric acid (OPC-4) and 12-hydroxy-JA (12-OH-JA). JAR1 can synthesize adenosine 5-tetraphosphate in vitro. JAR1 is required for the JA-mediated signaling pathway that regulates many developmental and defense mechanisms, including growth root inhibition, vegetative storage proteins (VSPs) accumulation, induced systemic resistance (ISR), response to wounding and herbivores, tolerance to ozone O₃ (probably having a role in lesion containment). JAR1 plays an important role in the accumulation of JA-Ile in response to wounding, both locally and systemically; promotes JA responding genes especially in distal part of wounded plants, via the JA-Ile-stimulated degradation of JAZ repressor proteins by the SCF(COI) E3 ubiquitin-protein ligase pathway.

Other Names:

Jasmonic acid-amido synthetase JAR1, Protein FAR-RED INSENSITIVE 219, FIN219

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the middle region of *arabidopsis thaliana* JAR1 (At2g46370). 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: 1:1,000-1:3,000 (detect endogenous protein*)

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



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Species Specificity:

Arabidopsis thaliana

Product Data:

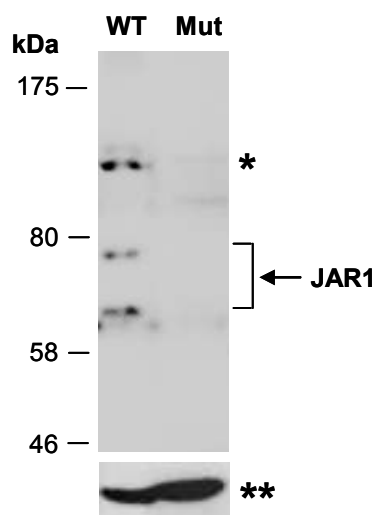


Fig 1. Western blot of equal amounts of protein extracts from WT or JAR1 deficient mutant (Mut) arabidopsis; using anti-JAR1 (M) (R3244-1) at RT for 2 h. The 120 kD protein indicated by * is also absent in the Mut sample. ** indicates a non-specific protein serving as a loading control.