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MPK6 (C) Antibody, Rabbit Polyclonal

Cat#: R3451-2

Lot#: Refer to vial

Quantity: 100 ul

Application: WB

Predicted I Observed M.W.: 45 I 48, 60 kDa

Uniprot ID: Q39026

Background:

MITOGEN-ACTIVATED PROTEIN KINASE 6 (MPK6) is involved in the innate immune MAP kinase signaling cascade (MEKK1, MKK4/MKK5 and MPK3/MPK6) downstream of bacterial flagellin receptor FLS2. MPK6 may be involved in hypersensitive response (HR)-mediated signaling cascade by modulating LIP5 phosphorylation and subsequent multivesicular bodies (MVBs) trafficking. MPK6 may phosphorylate regulators of WRKY transcription factors. MPK6 regulates locally gene-mediated and basal resistance response to certain pathogens. MPK6 may be involved in the cold and salinity stress-mediated MAP kinase signaling cascade (MEKK1, MKK1/MKK2 and MPK4/MPK6). MKK1-MPK6 module mediates abscisic acid (ABA)-dependent CAT1 expression with H2O2 production and response to drought and salt stress. MKK1-MPK6 module is also involved in sugar signaling during the process of seed germination. MKK3-MPK6 module plays an important role in the jasmonate signal transduction pathway through the negative regulation of MYC2/JIN1 expression. MKK9-MPK3/MPK6 module phosphorylates and activates EIN3, leading to the promotion of EIN3-mediated transcription in ethylene signaling. This MAPK cascade also functions downstream of the ER receptor in regulating coordinated local cell proliferation, which shapes the morphology of plant organs.

Other Names:

AtMAPK6, MPK6, At2g43790

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the C-terminal region of *arabidopsis thaliana* MPK6 (AT2G43790). 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_3. 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.

Abiocode, Inc., 29397 Agoura Rd., Ste 106, Agoura Hills, CA 91301

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Species Specificity:

Arabidopsis thaliana

Product Data:

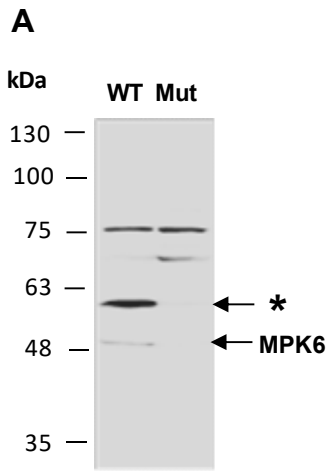

Fig 1. *Western blot analysis of equal amounts of protein extracts from wild type (WT)and Mpk6 deficient mutant (Mut) arabidopsis leaves, using anti-MPK6(C) (R3451-2) at RT for 2 hr. The 60kD band indicated by * may represent a phosphorylated/modified form of MPK6 protein.*