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## MPK6 (N) Antibody, Rabbit Polyclonal

**Cat#: R3451-1**

**Quantity: 100 ul**

**Predicted | Observed M.W.: 45 | 48 kDa**

**Lot#: Refer to vial**

**Application: WB**

**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 H<sub>2</sub>O<sub>2</sub> 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 N-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<sub>3</sub>. Store at -20 °C. Stable for 6 months from date of receipt.

### **Tested Applications:**

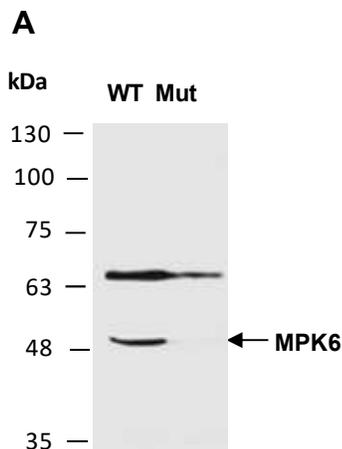
WB: 1:500-1:2,000 (detect endogenous protein\*)

\*: 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.** Western blot analysis of equal amounts of protein extracts from wild type (WT) and Mpk6 deficient mutant (Mut) arabidopsis leaves, using anti-MPK6(N) (R3451-1) at RT for 2 hr.