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## **NPR1 (M2) Antibody, Rabbit Polyclonal**

**Cat#: R3506-3**

**Quantity: 100 ul**

**Predicted | Observed M.W.: 66 kDa**

**Lot#: Refer to vial**

**Application: WB**

**Uniprot ID: P93002**

### **Background:**

NPR1 may act as a substrate-specific adapter of an E3 ubiquitin-protein ligase complex (CUL3-RBX1-BTB) which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. NPR1 is a key positive regulator of the SA-dependent signaling pathway that negatively regulates JA-dependent signaling pathway. NPR1 mediates the binding of TGA factors to the as-1 motif found in the pathogenesis-related PR-1 gene, leading to the transcriptional regulation of the gene defense. NPR1 controls the onset of systemic acquired resistance (SAR). Upon SAR induction, a biphasic change in cellular reduction potential occurs, resulting in reduction of the cytoplasmic oligomeric form to a monomeric form that accumulates in the nucleus and activates gene expression. The phosphorylated NPR1 is a target for proteasome degradation.

### **Other Names:**

Regulatory protein NPR1, BTB/POZ domain-containing protein NPR1, Non-inducible immunity protein 1, Nim1, Nonexpresser of PR genes 1, Salicylic acid insensitive 1, Sai1, NIM1, SAI1, At1g64280, F15H21.6

### **Source and Purity:**

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the middle region of *arabidopsis thaliana* NPR1 (AT1G64280). 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.

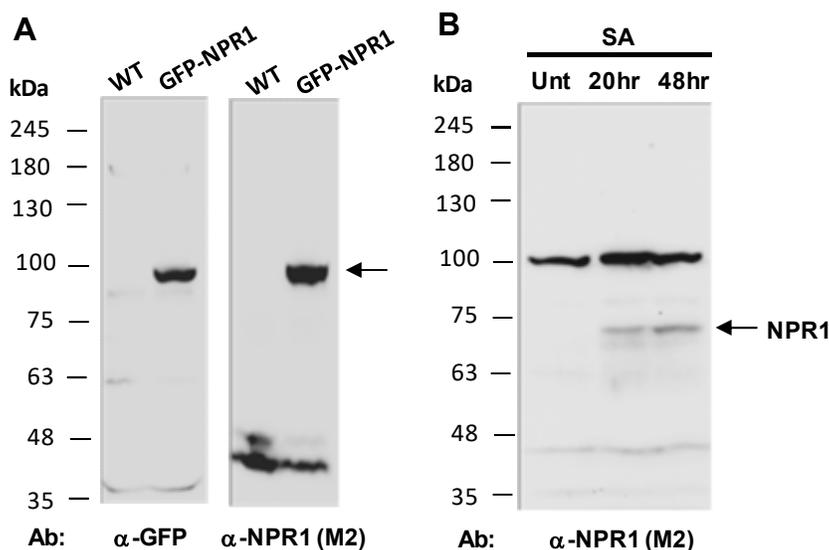
### **Species Specificity:**

*Arabidopsis thaliana*

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**Product Data:**



**Fig 1. A)** Western blot analysis of protein extracts prepared from adult leaves of wild type (WT) and transgenic *Arabidopsis* plants expressing GFP-NPR1 protein (GFP-NPR1), using anti-GFP (M0802-3a) or anti-NPR1 (M2) (R3506-3) at RT for 2 h as indicated. **B)** Western blot analysis of equal amounts of protein extracts from wild type *Arabidopsis* leaves untreated (Unt) or treated with 1mM salicylic acid (SA) for 20hr or 48hr as indicated, using anti-NPR1 (M2) (R3506-3) at RT for 2 h.