



Rabbit anti-Arabidopsis thaliana NPR1 (Middle region) Polyclonal Antibody (CABT-Z104R)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Antibodies were produced by immunizing animals with a GST-fusion protein containing the middle region of arabidopsis thaliana NPR1.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Arabidopsis thaliana
Purification	Antigen affinity purification
Conjugate	Unconjugated
Applications	WB Recommended dilution: WB: 1:500-1:2,000 (detect endogenous protein*)
Molecular Weight	66 kDa
Preparation	Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the middle region of arabidopsis thaliana NPR1 (AT1G64280).
Format	Liquid
Concentration	Lot specific
Size	100 µl
Buffer	Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN ₃ .
Preservative	0.01% NaN ₃

Storage	Store at -20°C. Stable for 6 months from date of receipt.
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Ship	Wet ice
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BACKGROUND

Introduction	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.
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Keywords	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
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GENE INFORMATION

Gene Name	NPR1
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Entrez Gene ID	842733
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UniProt ID	P93002
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