

RPS2 (aN-14): sc-27372

BACKGROUND

Bacterial pathogens deliver type III effector proteins into the plant cell during infection. Plants express disease resistance (R) proteins that respond specifically to a particular type III effector by activating immune responses. Resistance proteins guard the plant against pathogens that contain an appropriate avirulence protein via an indirect interaction. RPS2 (resistance to *Pseudomonas syringae* protein 2) is a 909 amino acid plasma membrane protein with leucine-rich repeat, leucine zipper and P loop domains that confers resistance to *Pseudomonas syringae* infection by interacting with the avirulence gene AvrRpt2. Belonging to the disease resistance NB-LRR family, RPS2 directly associates with RIN4, which triggers plant resistance when RIN4 is degraded by AvrRpt2.

REFERENCES

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SOURCE

RPS2 (aN-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of RPS2 of *Arabidopsis thaliana* origin (Accession/GI: 30173240).

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-27372 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

RPS2 (aN-14) is recommended for detection of RPS2 of *Arabidopsis thaliana* origin by Western Blotting. Recommended use of in Western Blotting: starting dilution: 1:200 (Range: 1:100-1:1000). Conjugated anti-goat secondary reagents for Western Blotting: HRP, sc-2350 or AP, sc-2351 (Range: 1:2000-1:10000). Cruz marker compatible anti-goat secondary reagents: HRP, sc-2378 or AP, sc-2381 (Range: 1:2000-1:5000).

Molecular Weight of RPS2: 31 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.