

# Anti-MACPF domain-containing protein CAD1 antibody

Catalog: PHY7904S

## Product Information

|                                 |  |
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| <b>Description:</b>             | Rabbit polyclonal antibody   |
| <b>Background:</b>              | CAD1 is a protein containing a domain with significant homology to the MACPF (membrane attack complex and perforin) domain of complements and perforin proteins that are involved in innate immunity in animals. Transgenic cad1-1 mutant plants show lesions seen in the hypersensitive response, as well as a spontaneous activation of expression of pathogenesis-related genes and leading to a 32-fold increase in salicylic acid (SA). CAD1 is postulated to act as a negative regulator controlling SA-mediated pathway of programmed cell death in plant immunity. |
| <b>Synonyms:</b>                | CAD1, CONSTITUTIVE ACTIVE DEFENSE 1, CONSTITUTIVELY ACTIVATED CELL DEATH 1, NECROTIC SPOTTED LESION 2, NSL2  |
| <b>Immunogen:</b>               | KLH-conjugated synthetic peptide (16 aa from C terminal section) derived from <i>Arabidopsis thaliana</i> CAD1 (AT1G29690).  |
| <b>Form:</b>                    | Lyophilized  |
| <b>Quantity:</b>                | 150 µg   |
| <b>Purification:</b>            | Serum<br>Peptide affinity form antibody available upon request at <a href="mailto:info@phytoab.com">info@phytoab.com</a> .   |
| <b>Reconstitution:</b>          | Reconstitution with 150 µl of sterile water.<br>"Note: please spin tube briefly prior to opening it to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tube".  |
| <b>Stability &amp; Storage:</b> | Use a manual defrost freezer and avoid repeated freeze-thaw cycles.<br>12 months from date of receipt, -20 to -70°C as supplied.<br>6 months, -20 to -70°C under sterile conditions after reconstitution.<br>1 month, 2 to 8°C under sterile conditions after reconstitution.  |
| <b>Shipping:</b>                | The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above.  |

## Application Information

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| <b>Recommended Dilution:</b> | Western Blot (1:1000-1:2000)<br>Note: Optimal dilutions/concentrations should be determined by the |
|------------------------------|--|

Research Use Only

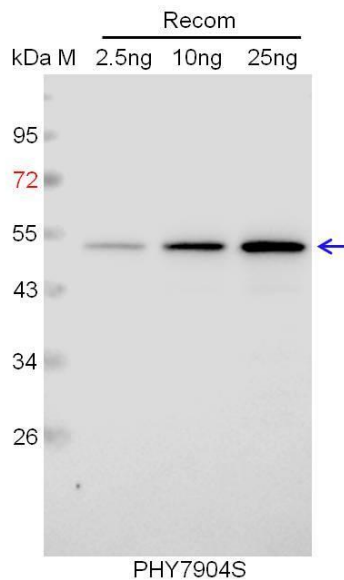
**Expected / apparent MW:**

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62 kDa

**Predicted Reactivity:**

Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Vitis vinifera*, *Glycine max*, *Nicotiana tabacum*, *Populus trichocarpa*, *Brassica napus*, *Cucumis sativus*, *Solanum tuberosum*, *Gossypium raimondii*, *Solanum lycopersicum*, *Medicago truncatula*, *Brassica rapa*, and 80-99% homologues with the sequence in *Oryza sativa*, *Hordeum vulgare*, *Zea mays*, *Panicum virgatum*, *Setaria viridis*. For more species homologues information, please contact tech support at [tech@phytoab.com](mailto:tech@phytoab.com).

## Application Example



Recom: 2.5 ng, 10 ng and 25 ng recombinant protein containing the peptide for immunization and having a molecular mass of 52 kDa.

**Electrophoresis:** 12% SDS-PAGE

**Transfer:** blotting to NC (nitrocellulose) membrane for 1 h.

**Blocking:** 5% skim milk at RT or 4°C for 1 h.

**Primary antibody:** 1:1000 dilution overnight at 4°C.

**Secondary antibody:** 1:10000 dilution using Goat Anti-Rabbit IgG H&L (HRP) (Cat# PHY6000).

**Detection:** using chemiluminescence substrate and image were captured with CCD camera.