

# Anti-CRD1/CHL27 antibody

Catalog: PHY3696S

## Product Information

|                                 |                                                                                                                                                                                                                                                                                                                             |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description:</b>             | Rabbit polyclonal antibody                                                                                                                                                                                                                                                                                                  |
| <b>Background:</b>              | CRD1 is a magnesium-protoporphyrin IX monomethyl ester oxidative cyclase. It is located in chloroplast membranes and mediates the cyclase reaction, which results in the formation of divinylprotochlorophyllide (Pchlde) characteristic of all chlorophylls from magnesium-protoporphyrin IX 13-monomethyl ester (MgPMME). |
| <b>Synonyms:</b>                | CRD1, CHL27, ACSF                                                                                                                                                                                                                                                                                                           |
| <b>Immunogen:</b>               | KLH-conjugated synthetic peptide (17 aa from N-terminal section) derived from <i>Arabidopsis thaliana</i> CRD1/CHL27 (AT3G56940).                                                                                                                                                                                           |
| <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

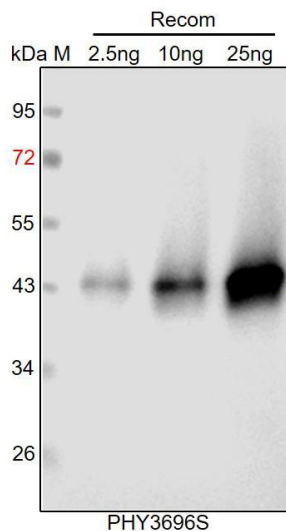
|                                |                                                                                                              |
|--------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Recommended Dilution:</b>   | Western Blot (1:1000-1:2000)<br>Note: Optimal dilutions/concentrations should be determined by the end user. |
| <b>Expected / apparent MW:</b> | 48 kDa                                                                                                       |
| <b>Predicted Reactivity:</b>   | Among species analyzed, the sequence of the synthetic peptide used                                           |

Research Use Only

for immunization is 100% homologues with the sequence in *Brassica napus*, *Brassica rapa*, *Glycine max*, *populus trichocarpa*, *Solanum tuberosum*, *Gossypium raimondii*, *Cucumis sativus*, *Solanum lycopersicum*, *Nicotiana tabacum*, *Vitis vinifera*, *Medicago truncatula*, and 94% homologues with the sequence in *Spinacia oleracea*, *Oryza sativa*, *Panicum virgatum*, *Zea mays*, *Sorghum bicolor*, *Panicum virgatum*.

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 43 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.