

Anti-Ubiquinol oxidase 4, chloroplastic/chromoplastic antibody

Catalog: PHY0444A

Product Information

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| Description: | Rabbit polyclonal antibody |
| Background: | Plastid terminal oxidase (PTOX) is a plastoquinol oxidase in thylakoid membranes. It acts early in chloroplast biogenesis as a component of a redox chain responsible for phytoene desaturation. |
| Synonyms: | PTOX, IM, IM1, IMMUTANS, PLASTID TERMINAL OXIDASE |
| Immunogen: | KLH-conjugated synthetic peptide (15 aa from C terminal section) derived from <i>Arabidopsis thaliana</i> PTOX (AT4G22260). |
| Form: | Lyophilized |
| Quantity: | 150 µg |
| Purification: | Immunogen affinity purified |
| Reconstitution: | Reconstitution with 150 µl of 0.01 M sterile PBS. "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". |
| Stability & Storage: | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 6 months, -20 to -70°C under sterile conditions after reconstitution. 1 month, 2 to 8°C under sterile conditions after reconstitution. |
| Shipping: | The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above. |

Application Information

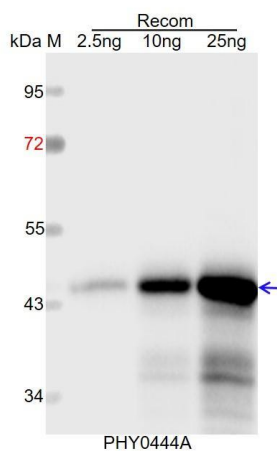
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| Recommended Dilution: | Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user. |
| Expected / apparent MW: | 41 kDa |
| Predicted Reactivity: | Among species analyzed, the sequence of the synthetic peptide used for immunization is 80-99% homologues with the sequence in <i>Brassica rapa</i> , <i>Brassica napus</i> , <i>Physcomitrium patens</i> , <i>Medicago truncatula</i> , <i>Solanum tuberosum</i> , <i>Nicotiana tabacum</i> , <i>Solanum</i> |

Research Use Only

lycopersicum, Triticum aestivum, Hordeum vulgare, Glycine max, Medicago truncatula, Populus trichocarpa, Cucumis sativus, Zea mays, Spinacia oleracea.

For more species homologues information, please contact tech support at 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 45 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.