# Anti-NADH dehydrogenase subunit 4 antibody

**Catalog:** PHY0511S

## Product Information

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| **Description:** | Rabbit polyclonal antibody |
| **Background:** | Complex I is the largest protein complex of the oxidative phosphorylation system in mitochondrial and it catalyzes NADH-quinone oxidoreduction. Complex I represents the main entrance site for electrons into the respiratory electron transfer chain. In Arabidopsis, Complex I have at least 49 subunits and NAD4 (ATMG00580) is one of the subunit. |
| **Synonyms:** | NAD4, NADH DEHYDROGENASE SUBUNIT 4 |
| **Immunogen:** | KLH-conjugated synthetic peptide of NAD4 derived from *Arabidopsis thaliana* ATMG00580. |
| **Form:** | Lyophilized |
| **Quantity:** | 150 µg |
| **Purification:** | Serum<br>Peptide affinity form antibody available upon request at info@phytoab.com. |
| **Reconstitution:** | 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". |
| **Stability & Storage:** | Use a manual defrost freezer and avoid repeated freeze-thaw cycles.<br>12 months from date of receipt, -20 to -70℃ as supplied.<br>6 months, -20 to -70℃ under sterile conditions after reconstitution.<br>1 month, 2 to 8℃ under sterile conditions after reconstitution. |
| **Shipping:** | The product is shipped at 4℃. Upon receipt, store it immediately at the temperature recommended above. |

## Application Information

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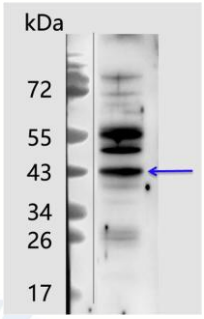
| **Recommended Dilution:** | Western Blot (1:1000-1:2000)<br>Note: Optimal dilutions/concentrations should be determined by the end user. |
| **Expected/apparent MW:** | 55 kDa |
| **Confirmed Reactivity:** | *Arabidopsis thaliana* |

**Predicted Reactivity:** Among 25 analyzed species, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Medicago truncatula, Brassica rapa subsp. oleifera, Gossypium raimondii, Vitis vinifera, Glycine max, Cucumis sativus,* and 80-99% homologues with the sequence in *Triticum aestivum, Sorghum bicolor, Zea mays subsp. mays, Oryza sativa Indica Group, Hordeum vulgare subsp. vulgare, Oryza sativa Japonica Group, Brassica napus, Nicotiana tabacum.*

For more species homologues information, please contact tech support at tech@phytoab.com.

## Application Example




10 μg mitochondria protein from *Arabidopsis thaliana* leaf.

**Electrophoresis:** 15% SDS-Urea-PAGE

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

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

**Primary antibody:** 1:1000 dilution overnight at 4℃.

**Secondary antibody:** 1:10000 dilution using Goat Anti-Rabbit IgG H&L(HRP) **PHY0511S** (Cat# PHY6000).

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