

Anti-NAD(P)H DEHYDROGENASE SUBUNIT 48 antibody

Catalog: PHY1754A

Product Information

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| Description: | Rabbit polyclonal antibody |
| Background: | NDH48 is a novel nuclear-encoded subunit of the chloroplast NDH dehydrogenase complex, involved in cyclic electron flow around photosystem I to produce ATP. NDH48 and NDH45 are crucial both for the stable structure and function of the NDH complex. |
| Synonyms: | NDH48, NAD(P)H DEHYDROGENASE SUBUNIT 48, NDF1, NDH-DEPENDENT CYCLIC ELECTRON FLOW 1, PHOTOSYNTHETIC NDH SUBCOMPLEX B 1, PNSB1 |
| Immunogen: | KLH-conjugated synthetic peptide (15 aa from Central section) derived from <i>Arabidopsis thaliana</i> NDH48 (AT1G15980). |
| 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: | 51 / 48 kDa |
| Confirmed Reactivity: | <i>Arabidopsis thaliana</i> |

Research Use Only

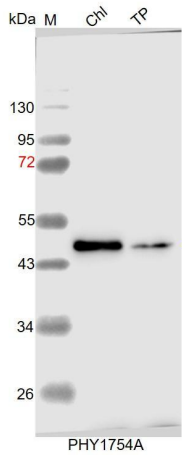
Predicted Reactivity:

Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Brassica napus*, *Brassica rapa*, and 80-99% homologues with the sequence in *Panicum virgatum*, *Setaria viridis*, *Zea mays*, *Oryza sativa*, *Triticum aestivum*, *Hordeum vulgare*, *Sorghum bicolor*, *Gossypium raimondii*, *Cucumis sativus*, *Glycine max*, *Medicago truncatula*.

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

Application Example

Example1:



Chl: 7.5 µg total chloroplast protein from *Arabidopsis thaliana*.

TP: 15 µg total protein from *Arabidopsis thaliana*.

Electrophoresis: 15% SDS-PAGE

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

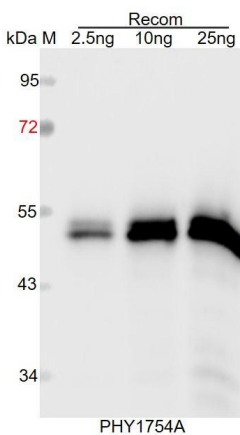
Blocking: 5% skim milk at RT or 4°C for 1 h.

Primary antibody: 1:2000 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.

Example2:



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.