

# Anti-NADH dehydrogenase [ubiquinone] iron-sulfur protein 1, mitochondrial antibody

Catalog:PHY0523S

## Product Information

<b>Description:</b>	Rabbit polyclonal antibody
<b>Background:</b>	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 75 kD (AT5G37510) is one of the subunit.
<b>Synonyms:</b>	EMB1467, 75 kD, CI76, EMBRYO DEFECTIVE 1467
<b>Immunogen:</b>	KLH-conjugated synthetic peptide (18 aa from Central section) derived from <i>Arabidopsis thaliana</i> EMB1467 (AT5G37510).
<b>Form:</b>	Lyophilized
<b>Quantity:</b>	150 µg
<b>Purification:</b>	Serum 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. "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. 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.
<b>Shipping:</b>	The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above.

## Application Information

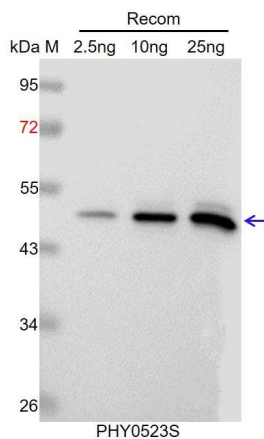
<b>Recommended Dilution:</b>	Western Blot(1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
<b>Expected / apparent MW:</b>	82 kDa

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 rapa*, *Brassica napus*, and 80-99% homologues with the sequence in *Glycine max*, *Spinacia oleracea*, *Gossypium raimondii*, *Oryza sativa*, *Cucumis sativus*, *Vitis vinifera*, *Nicotiana tabacum*, *Populus trichocarpa*, *Hordeum vulgare*, *Zea mays*, *Panicum virgatum*, *Setaria viridis*, *Sorghum bicolor*, *Triticum aestivum*, *Medicago truncatula*. 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 50 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.