Anti-Mitochondrial ATP Synthase Subunit D antibody

Catalog: PHY4592S

Product Information

Description: Rabbit polyclonal antibody

Background: Mitochondrial ATP synthase (F_1F_0 ATP synthase or Complex V) produces ATP from ADP in the presence of a proton gradient across the membrane which is generated by electron transport complexes of the respiratory chain. F-type ATPases consist of two structural domains. While F_1-containing the extramembraneous catalytic core, F_0- containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP synthesis in the catalytic domain of F_1 is coupled via a rotary mechanism of the central stalk subunits to proton translocation. ATPd is a subunit of mitochondrial ATP synthase.

Synonyms: ATPd, RMtATPd2, OsMtATPd2, MtATPd2

Immunogen: KLH-conjugated synthetic peptide (15 aa from N terminal section) derived from *Oryza sativa* ATPd (Os08g0478200).

Form: Lyophilized

Quantity: 150 µg

Purification: Serum

Peptide affinity form antibody available upon request at info@phytoab.com.

Reconstitution: 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".

Stability & Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

12 months from date of receipt, -20 to -70℃ as supplied.

6 months, -20 to -70℃ under sterile conditions after reconstitution.

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

Recommended Dilution: Western Blot (1:1000-1:2000)

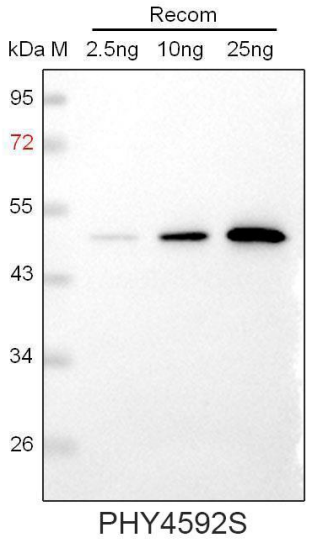
Note: Optimal dilutions/concentrations should be determined by the end user.

Expected / apparent MW: 20 kDa

Predicted Reactivity: Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Hordeum vulgare, zea mays, Setaria viridis, Panicum virgatum, Sorghum bicolor*, and 93% homologues with the sequence in *Triticum aestivum, Spinacia oleracea, Gossypium raimondii, Vitis vinifera.*

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

Application Example



PHY4592S

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℃ for 1 h.

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

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.