

Anti-ATP synthase subunit 1, mitochondrial antibody

Catalog: PHY1128S

Product Information

Description:	Rabbit polyclonal antibody
Background:	Mitochondrial F ₀ F ₁ -ATP synthase is also called Complex V and it synthesizes ATP from ADP and Pi using the proton motive force created by respiratory electron transport. ATP1 (ATMG01190/AT2G07698) is a subunit of mitochondrial F ₀ F ₁ -ATP synthase in <i>Arabidopsis</i> .
Synonyms:	ATP1, ATP SYNTHASE SUBUNIT 1
Immunogen:	KLH-conjugated synthetic peptide (15 aa from Central section) derived from <i>Arabidopsis thaliana</i> ATP1 (ATMG01190) and AT2G07698.
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°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

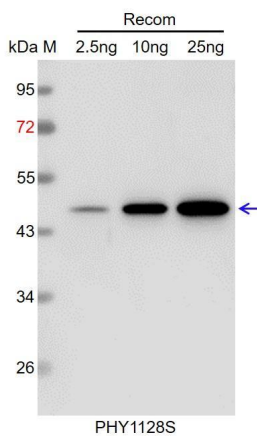
Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected / apparent MW:	55 kDa (ATMG01190), 86 kDa (AT2G07698)
Predicted Reactivity:	Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologous with the sequence in <i>Glycine max</i> , <i>Medicago truncatula</i> , <i>Cucumis sativus</i> , <i>Sorghum bicolor</i> ,

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Gossypium raimondii, *Solanum lycopersicum*, *Nicotiana tabacum*,
Triticum aestivum, *Oryza sativa*, *Panicum virgatum*, *Setaria viridis*,
Vitis vinifera, *Zea mays*, *Brassica rapa*, *Brassica napus*, *Populus*
trichocarpa, *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 48 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.