Anti-ATP synthase subunit 1, mitochondrial antibody

Catalog: PHY1128S

Product Information

Description:	Rabbit polyclonal antibody
Background:	Mitochondrial F0F1-ATP synthase is also called Complex V and it synthesis ATP from ADP and Pi using the proton motive force created by respiratory electron transport. ATP1 (ATMG01190/AT2G07698) is a subunit of mitochondrial F0F1-ATP synthase in Arabidopsis.
Synonyms:	ATP1, ATP SYNTHASE SUBUNIT 1
Immunogen:	KLH-conjugated synthetic peptide of ATP1 derived from *Arabidopsis thaliana* ATMG01190, 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℃ 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.

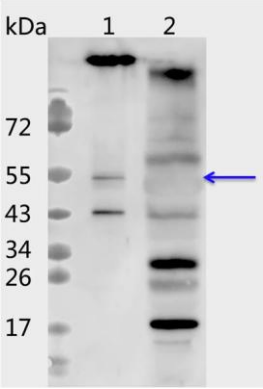
Application Information

Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected/apparent MW:	55 kDa (ATMG01190), 86 kDa (AT2G07698)
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 *Triticum aestivum, Brassica rapa subsp. oleifera,* and 80-99% homologues with the sequence in *Spinacia oleracea.*

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

Application Example



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Lane 1: 8 µg mitochondria protein from *Arabidopsis thaliana* leaf.

Lane 2: 80 µg total 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) (Cat# PHY6000).

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