

Anti-ATP synthase subunit 8, mitochondrial antibody

Catalog: PHY1130A

Product Information

Description:	Rabbit polyclonal antibody
Background:	Mitochondrial FOF1-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. ATP8 (ATMG00480 / AT2G07707) is a subunit of mitochondrial FOF1-ATP synthase in <i>Arabidopsis</i> .
Synonyms:	ATP8, YMF19, ATP SYNTHASE 8, ORFB
Immunogen:	KLH-conjugated synthetic peptide (15 aa from N terminal section) derived from <i>Arabidopsis thaliana</i> ATP8 (ATMG00480) and AT2G07707.
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

Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected / apparent MW:	18 / 17 kDa
Confirmed Reactivity:	<i>Arabidopsis thaliana</i>
Predicted Reactivity:	Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologous with the sequence in <i>Brassica</i>

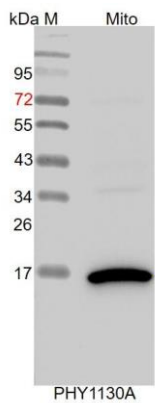
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napus, *Brassica rapa*, *Cucumis sativus*, and 80-99% homologues with the sequence in *Panicum virgatum*, *Triticum aestivum*, *Oryza sativa*, *Sorghum bicolor*, *Gossypium raimondii*, *Zea mays*, *Vitis vinifera*, *Hordeum vulgare subsp. vulgare*,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

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

Application Example

Example 1



Mito: 7.5 µg mitochondria protein from *Arabidopsis thaliana*.

Electrophoresis: 15% SDS-PAGE

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

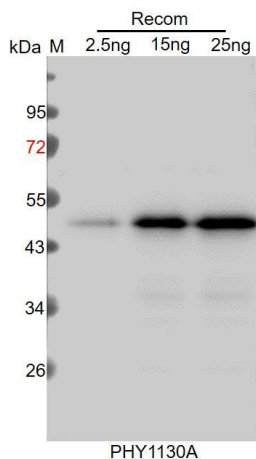
Blocking: 5% skim milk at RT or 4°C for 1 h.

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.

Example 2



Recom: 2.5 ng, 15 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.