

Anti-Mitochondrial ATP synthase subunit beta antibody

Catalog: PHY0007

Product Information

Description:	Rabbit polyclonal antibody
Background:	ATP synthase is the universal enzyme that synthesizes ATP from ADP and phosphate using the energy stored in a transmembrane ion gradient. It is encoded by a multigene family of three members (At5g08670, At5g08680, At5g08690). F-type ATPases have 2 components, CF1 - the catalytic core - and CF0 - the membrane proton channel. CF1 has five subunits: alpha3, beta3, gamma1, delta1, epsilon1. CF0 has three main subunits: a1, b2 and c (9-12). The alpha and beta chains form an alternating ring which encloses part of the gamma chain. CF1 is attached to CF0 by a central stalk formed by the gamma and epsilon chains, while a peripheral stalk is formed by the delta and b chains.
Synonyms:	AtpB, ATP synthase F1 sector subunit beta, F-ATPase subunit beta.
Immunogen:	KLH-conjugated synthetic peptide of AtpB derived from <i>Arabidopsis thaliana</i> AT5G08670, AT5G08680, AT5G08690.
Form:	Lyophilized
Quantity:	150 µg
Purification:	Protein A 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 (1:1000-1:5000) Note: Optimal dilutions/concentrations should be determined by the end user.
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Research Use Only

Expected/apparent MW: 60 kDa

Confirmed Reactivity: *Arabidopsis thaliana*

Predicted Reactivity: Among 25 analyzed species, the sequence of the synthetic peptide used for immunization is 100% homologous with the sequence in *Chlamydomonas reinhardtii*, *Solanum tuberosum*, *Solanum lycopersicum*, *Nicotiana tabacum*, *Cucumis sativus*, *Glycine max*, *Vitis vinifera*, *Oryza sativa Japonica Group*, *Brassica napus*, *Brassica rapa*, *Zea mays*, *Triticum aestivum*, *Sorghum bicolor*, *Gossypium raimondii*, *Synechocystis sp. PCC 6803*.

The sequence of the synthetic peptide used for immunization is also 93% homologous with the sequence in chloroplast ATP synthase beta subunit ATCG00480.

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