Anti-Cytochrome c oxidase subunit 5b-1/2, mitochondrial antibody

Catalog: PHY2182S

Product Information

Description:	Rabbit polyclonal antibody
Background:	Cytochrome c oxidase is the last enzyme in the respiratory electron transport chain of mitochondria and it is also called Complex IV. Cytochrome c oxidase receives an electron from each of four cytochrome c molecules, and transfers them to one oxygen molecule, converting molecular oxygen to two molecules of water. In higher plants mitochondria, Complex IV processes 14 subunits. COX Vb (AT3G15640/AT1G80230) is one subunit of the Complex IV.
Synonyms:	COX Vb, COX5B-1/2, COX5B
Immunogen:	KLH-conjugated synthetic peptide (15 aa from C terminal section) derived from *Arabidopsis thaliana* COX Vb-1 (AT3G15640) and COX Vb-2 (AT1G80230).
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: 19 kDa

Predicted Reactivity: Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Vitis vinifera*, *Brassica napus*, *Brassica rapa*, *Zea mays*, *Panicum virgatum*, *Oryza sativa*, *Spinacia oleracea*, *Nicotiana tabacum*, *Populus trichocarpa*, *Sorghum bicolor*, *Setaria viridis*, *Glycine max*, *Triticum aestivum*, *Medicago truncatula*, *Gossypium raimondii.*

The sequence of the synthetic peptide used for immunization is 87% (13 / 15) homologues with the sequence in AT1G52710.

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