

Anti-Plant alternative oxidase 1, C-terminal antibody

Catalog: PHY2213A

Product Information

Description:	Rabbit polyclonal antibody
Background:	Alternative oxidases (AOX) are quinol oxidases located in the inner mitochondrial membrane of plants. They function as terminal oxidases in the alternate electron transport pathway, oxidizing ubiquinone to reduce oxygen to water. AOX isoenzymes are including AOX1A (AT3G22370), AOX1B (AT3G22360), AOX1C (AT3G27620) and AOX1D (AT1G32350) from <i>Arabidopsis</i> .
Synonyms:	AOX1
Immunogen:	KLH-conjugated synthetic peptide (16 aa from C terminal section) derived from <i>Arabidopsis thaliana</i> AOX1A (AT3G22370) and AOX1B (AT3G22360)
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:	40 (AT3G22370), 37 (AT3G22360) / 33 kDa
Confirmed Reactivity:	<i>Arabidopsis thaliana</i>

Research Use Only

Predicted Reactivity:

Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Brassica napus*, *Brassica rapa*, *Populus trichocarpa*, and 80-99% homologues with the sequence in *Gossypium raimondii*, *Medicago truncatula*, *Glycine max*, *Oryza sativa*, *Spinacia oleracea*.

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

Application Example



Mito: 15 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: 1:1000 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.