

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	
Buokground.	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	
	Arabidopsis.	
Synonyms:	AOX1A/B	
Immunogen:	KLH-conjugated synthetic peptide (16 aa from C terminal section) derived from	
	Arabidopsis thaliana 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 &	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.	
Storage:	12 months from date of receipt, -20 to -70 $^\circ C$ as supplied.	
	6 months, -20 to -70 $^\circ\!\!\!\!\!^\circ$ under sterile conditions after reconstitution.	
	1 month, 2 to 8 $^\circ\!\mathrm{C}$ under sterile conditions after reconstitution.	
Shipping:	The product is shipped at 4 $^\circ\!\mathrm{C}.$ 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:	Arabidopsis thaliana

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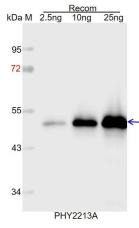
Predicted Reactivity:

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*. The sequence of the synthetic peptide used for immunization is 94% (15/16) homologues with the sequence in AOX1C (AT3G27620). For more species homologues information, please contact tech support at tech@phytoab.com.

Application Example Example1:

kDa M Mito	Mito: 15 μg mitochondria protein from <i>Arabidopsis thaliana.</i> Electrophoresis: 15% SDS-PAGE
95 72	Transfer: blotting to NC (nitrocellulose) membrane for 1 h.
55	Blocking: 5% skim milk at RT or 4℃ for 1 h.
43 📟	Primary antibody: 1:1000 dilution overnight at 4 °C.
34 🤍 👝 🤶	Secondary antibody: 1:10000 dilution using Goat Anti-Rabbit IgG H&L(HRP)
26	(Cat# PHY6000).
EL IVOD 404	Detection: using chemiluminescence substrate and image were
PHY2213A	captured with CCD camera.

Example2:



Recom: 2.5 ng, 10 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° 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.

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