

Anti-AOX1 antibody

Catalog: PHY3047A

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:	ALTERNATIVE OXIDASE 1A, AOX1A, ATOX1A, ATHSR3, HSR3, HYPER SENSITIVITY-RELATED 3, AOX1B, AOX1C
Immunogen:	KLH-conjugated synthetic peptide (14 aa from central section) derived from <i>Arabidopsis thaliana</i> AOX1A (AT3G22370), AOX1B (AT3G22360), and AOX1C (AT3G27620).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Immunogen affinity purified
Reconstitution:	Reconstitution with 150 µl of sterile 1XPBS (PH=7.4) containing 30% glycerol. "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.
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Research Use Only

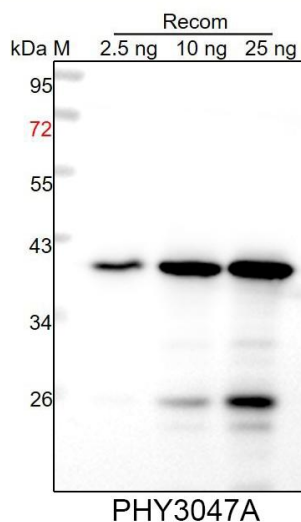
Expected / apparent MW: 40 kDa

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*, *Nicotiana tabacum*, *Solanum lycopersicum*, *Medicago truncatula*, *Solanum tuberosum*, and 93% homologues with the sequence in *Glycine max*, *Spinacia oleracea*, *Gossypium raimondii*, *Vitis vinifera*.

The sequence of the synthetic peptide used for immunization is 93% homologues with the sequence in AOX1D (AT1G32350).

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

Application Example



Recom: 2.5 ng, 10 ng and 25 ng recombinant protein containing the peptide for immunization and having a molecular mass of 40 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.