

## Anti-Plant alternative oxidase 1/2 antibody

Catalog: PHY2212A

#### **Product Information**

**Description:** Rabbit polyclonal antibody

**Background:** The cyanide-insensitive alternative oxidase (AOX) is a non-proton-pumping

ubiquinol oxidase that catalyzes the reduction of oxygen to water and is

Arabidopsis possesses five AOX isoforms, and are AOX1A (AT3G22370),

posttranslationally regulated by redox mechanisms and 2-oxo acids.

AOX1B (AT3G22360), AOX1C (AT3G27620), AOX1D (AT1G32350) and AOX2

(AT5G64210).

Synonyms: AOX1/2

**Immunogen:** KLH-conjugated synthetic peptide (19 aa from C terminal section) derived from

Arabidopsis thaliana AOX1A (AT3G22370), AOX1B (AT3G22360), AOX1C

(AT3G27620), AOX1D (AT1G32350) and AOX2 (AT5G64210).

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 °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 kDa (AT5G64210, AT3G22370), 38 kDa (AT3G27620), 36 kDa

(AT1G32350), 37 kDa (AT3G22360)



Confirmed Reactivity: Arabidopsis thaliana

Predicted Reactivity: Among species analyzed, the sequence of the synthetic peptide used

for immunization is 100% homologues with the sequence in *Solanum lycopersicum*, *Solanum tuberosum*, *Physcomitrium patens*, *Nicotiana tabacum*, *Brassica rapa*, *Brassica napus*, *Spinacia oleracea*, *Populus* 

trichocarpa, Gossypium raimondii, Medicago truncatula, Vitis vinifera,

Glycine max, and 80-99% homologues with the sequence in Oryza

sativa, Triticum aestivum, Zea mays, Hordeum vulgare.

For more species homologues information, please contact tech

support at tech@phytoab.com.

# Application Example

Example1:

kDa M

95

55

26

Mito: 7.5 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: 1:2000 dilution overnight at 4°C.

Secondary antibody: 1:10000 dilution using Goat Anti-Rabbit IgG H&L(HRP)

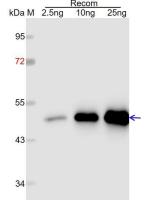
(Cat# PHY6000).

**Detection:** using chemiluminescence substrate and image were

captured with CCD camera.

### Example2:

PHY2212A



PHY2212A

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  $4^{\circ}$ 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.