

# Anti-Xanthoxin dehydrogenase antibody

Catalog: PHY1199S

## Product Information

<b>Description:</b>	Rabbit polyclonal antibody
<b>Background:</b>	ABA2 is a cytosolic short-chain dehydrogenase/reductase involved in the conversion of xanthoxin to ABA-aldehyde during ABA biosynthesis. It plays important roles in angiosperm physiology and survival, including driving stomatal closure, inducing seed dormancy and aiding desiccation and salinity tolerance.
<b>Synonyms:</b>	ABA2, ABA DEFICIENT 2, ARABIDOPSIS THALIANA ABA DEFICIENT 2, ATABA2, ATSDR1, GIN1, GLUCOSE INSENSITIVE 1, IMPAIRED SUCROSE INDUCTION 4, ISI4, SALT RESISTANT 1, SDR1, SHORT-CHAIN DEHYDROGENASE REDUCTASE 1, SHORT-CHAIN DEHYDROGENASE/REDUCTASE 1, SIS4, SRE1, SUGAR-INSENSITIVE 4
<b>Immunogen:</b>	KLH-conjugated synthetic peptide (15 aa from C terminal section) derived from <i>Arabidopsis thaliana</i> ABA2 (AT1G52340).
<b>Form:</b>	Lyophilized
<b>Quantity:</b>	150 µg
<b>Purification:</b>	Serum Peptide affinity form antibody available upon request at <a href="mailto:info@phytoab.com">info@phytoab.com</a> .
<b>Reconstitution:</b>	Reconstitution with 150µl 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".
<b>Stability &amp;</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
<b>Storage:</b>	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.
<b>Shipping:</b>	The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above.

Research Use Only

## Application Information

**Recommended Dilution:** Western Blot (1:1000-1:2000)

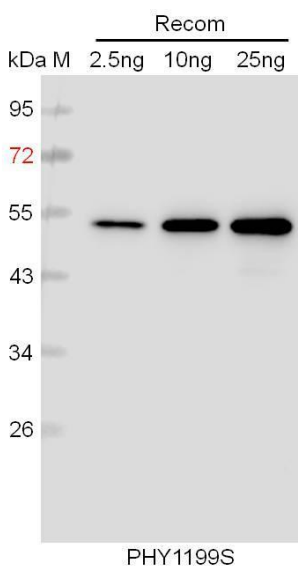
Note: Optimal dilutions/concentrations should be determined by the end user.

**Expected/apparent MW:** 30 kDa

**Predicted Reactivity:** Among species analyzed, the sequence of the synthetic peptide used for immunization is 80-99% homologues with the sequence in *Brassica napus*, *Brassica rapa*, *Vitis vinifera*, *Spinacia oleracea*, *Glycine max*.

For more species homologues information, please contact tech support at [tech@phytoab.com](mailto: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 52 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.