

# Anti-Thylakoid lumenal 29 kDa protein, chloroplastic antibody

Catalog: PHY3889S

## Product Information

<b>Description:</b>	Rabbit polyclonal antibody
<b>Background:</b>	TL29 is one of the more abundant proteins in the thylakoid lumen of plant chloroplasts. Based on its sequence homology to ascorbate peroxidases, TL29 was suggested to be involved in the plant defense system against reactive oxygen species and consequently renamed to APX4.
<b>Synonyms:</b>	TL29, APX4, ASCORBATE PEROXIDASE 4, THYLAKOID LUMEN 29.
<b>Immunogen:</b>	KLH-conjugated synthetic peptide (14 aa from N terminal section) derived from <i>Arabidopsis thaliana</i> TL29 (AT4G09010).
<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 150 µl 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; Storage:</b>	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.
<b>Shipping:</b>	The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above.

## Application Information

<b>Recommended Dilution:</b>	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
<b>Expected / apparent MW:</b>	38 kDa
<b>Predicted Reactivity:</b>	Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in <i>Vitis</i>

Research Use Only

*vinifera*, *Gossypium raimondii*, *Brassica rapa*, *Brassica napus*, *Oryza sativa*, and 80-99% homologues with the sequence in *Hordeum vulgare*, *Sorghum bicolor*, *Triticum aestivum*, *Spinacia oleracea*, *Nicotiana tabacum*, *Glycine max*, *Populus trichocarpa*, *Cucumis sativus*, *Zea mays*, *Medicago truncatula*, *Panicum virgatum*, *Triticum aestivum*, *Setaria viridis*, *Solanum lycopersicum*, *Solanum tuberosum*.

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