

# Anti-Violaxanthin de-epoxidase, chloroplastic antibody

Catalog: PHY3504A

## Product Information

<b>Description:</b>	Rabbit polyclonal antibody
<b>Background:</b>	NPQ1 is a violaxanthin deepoxidase involved in xanthophyll cycle. Two major consequences of the npq1 mutation are the absence of zeaxanthin formation in strong light and the partial inhibition of the quenching of singlet excited chlorophylls in the photosystem II light-harvesting complex.
<b>Synonyms:</b>	NPQ1, ARABIDOPSIS VIOLAXANTHIN DE-EPOXIDASE 1, AVDE1, NON-PHOTOCHEMICAL QUENCHING 1
<b>Immunogen:</b>	KLH-conjugated synthetic peptide (14 aa from C terminal section) derived from <i>Arabidopsis thaliana</i> NPQ1 (AT1G08550).
<b>Form:</b>	Lyophilized
<b>Quantity:</b>	150 µg
<b>Purification:</b>	Immunogen affinity purified
<b>Reconstitution:</b>	Reconstitution with 150 µl of sterile 1XPBS (PH=7.4). "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>	52 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>Glycine max</i> , <i>Sorghum bicolor</i> , <i>Panicum virgatum</i> , <i>Oryza sativa</i> , <i>Triticum</i>

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*aestivum*, *Hordeum vulgare*, *Setaria viridis*, 80-99% homologues with the sequence in *Brassica napus*, *Populus trichocarpa*, *Medicago truncatula*, *Zea mays*, *Brassica rapa*, *Nicotiana tabacum*, *Solanum tuberosum*, *Solanum lycopersicum*, *Vitis vinifera*.

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