

# Anti-Catalase 1/2 antibody

Catalog: PHY0501A

## Product Information

<b>Description:</b>	Rabbit polyclonal antibody
<b>Background:</b>	Catalase is a tetrameric iron porphyrin that catalyses the dismutation of H <sub>2</sub> O <sub>2</sub> to water and oxygen. The <i>Arabidopsis</i> genome encodes three catalase subunits, CAT1 (AT1G20630), CAT2 (AT4G35090), and CAT3 (AT1G20620). These three individual subunits associate to form at least six catalase isoforms.
<b>Synonyms:</b>	Cat 1/2, Catalase 1/2
<b>Immunogen:</b>	KLH-conjugated synthetic peptide (15 aa from N terminal section) derived from <i>Arabidopsis thaliana</i> Cat2 (AT4G35090) and Cat1 (AT1G20630).
<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>	57 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>Brassica napus</i> , <i>Brassica rapa</i> , <i>Vitis vinifera</i> , <i>Glycine max</i> , <i>Zea mays</i> , <i>Triticum aestivum</i> , <i>Populus trichocarpa</i> , <i>Chlamydomonas reinhardtii</i> ,

Research Use Only

*Gossypium raimondii, Sorghum bicolor, Solanum tuberosum, Solanum lycopersicum, Panicum virgatum, Hordeum vulgare, Cucumis sativus, Setaria viridis, Spinacia oleracea, Oryza sativa, Nicotiana tabacum, Medicago truncatula.*

The sequence of the synthetic peptide used for immunization is 80% (12 / 15) homologues with the sequence in CAT3 (AT1G20620).

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