Anti-Non-symbiotic hemoglobin 1 antibody

Catalog: PHY1549A

Product Information

Description:	Rabbit polyclonal antibody
Background:	Different classes of nonsymbiotic plant hemoglobins have been identified and divided into class 1 (Hb1) and class 2 (Hb2) (AT3G10520) based on phylogenetic characteristics, gene expression patterns, and oxygen-binding properties. Type 1 nonsymbiotic hemoglobin from Arabidopsis thaliana (AHb1) shows a partial bis-histidyl hexacoordination but can reversibly bind diatomic ligands. AHB1 may not function as an oxygen storage or transport protein, but might act as an oxygen sensor or play a role in electron transfer, possibly to a bound oxygen molecule.
Synonyms:	AHB1, ARATH GLB1, ATGLB1, CLASS I HEMOGLOBIN, GLB1, HB1, HEMOGLOBIN 1, NSHB1, PGB1, PHYTOGLOBIN 1
Immunogen:	KLH-conjugated synthetic peptide (15 aa from Central section) derived from *Arabidopsis thaliana* AHB1 (AT2G16060).
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 & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70℃ as supplied. 6 months, -20 to -70℃ under sterile conditions after reconstitution. 1 month, 2 to 8℃ under sterile conditions after reconstitution.
Shipping:	The product is shipped at 4℃. 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: 18 kDa

Confirmed Reactivity: Coming soon

Predicted Reactivity: Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Brassica napus, Brassica rapa,* and 80-99% homologues with the sequence in *Brassica rapa, Populus trichocarpa, Vitis vinifera, Glycine max.*
For more species homologues information, please contact tech support at tech@phytoab.com.