Anti- 7-hydroxymethyl chlorophyll a reductase, chloroplastic antibody

Catalog: PHY2765A

Product Information

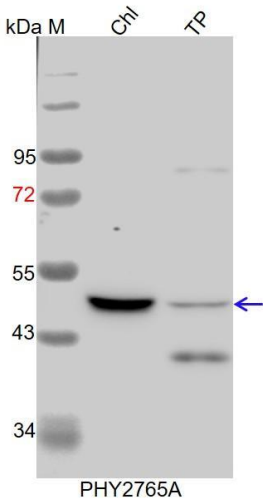
Description:	Rabbit polyclonal antibody
Background:	HCAR is a probable iron-sulfur flavoprotein that converts 7-hydroxymethyl chlorophyll a to chlorophyll a using ferredoxin as a reducing equivalent. It catalyzes the reduction of a hydroxymethyl group to a methyl group. Belongs to the chlorophyll catabolic enzymes (CCEs).
Synonyms:	HCAR , 7-HYDROXYMETHYL CHLOROPHYLL A (HMCHL) REDUCTASE
Immunogen:	KLH-conjugated synthetic peptide (18 aa from Central section) derived from *Arabidopsis thaliana* HCAR (AT3G25480).
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:	52 / 50 kDa
Confirmed Reactivity:	*Arabidopsis thaliana*
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 *Zea mays, Panicum virgatum, Oryza sativa, Hordeum vulgare, Sorghum bicolor, Setaria viridis, Triticum aestivum, Spinacia oleracea, Gossypium raimondii, Cucumis sativus, Solanum tuberosum, Solanum lycopersicum, Vitis vinifera, Nicotiana tabacum, Glycine max, Populus trichocarpa, Medicago truncatula, Physcomitrium patens.*
For more species homologues information, please contact tech support at tech@phytoab.com.

Application Example



Lane Chl: 7.5 µg total chloroplast protein from *Arabidopsis thaliana*.
Lane TP: 15 µg total protein from *Arabidopsis thaliana*.
Electrophoresis: 12% SDS-PAGE
Transfer: blotting to NC (nitrocellulose) membrane for 1 h.
Blocking: 5% skim milk at RT or 4□ for 1 h.
Primary antibody: 1:2000 dilution overnight at 4℃.
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.