

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 (AT1G04620).

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 & Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

Storage: 12 months from date of receipt, -20 to -70 ℃ as supplied.

6 months, -20 to -70 °C under sterile conditions after reconstitution.

1 month, 2 to 8℃ under sterile conditions after reconstitution.

Shipping: The product is shipped at 4°C. 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 Example1:

Chl: 7.5 µg total chloroplast protein from *Arabidopsis thaliana*.

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° C for 1 h.

Primary antibody: 1:2000 dilution overnight at 4°C.

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.

Example2:

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55

Recom: 2.5 ng, 10 ng and 25 ng recombinant protein containing the peptide

for immunization and having a molecular mass of 43 kDa.

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: 1:1000 dilution overnight at 4°C.

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.

