

CCS | Chloroplastic copper chaperone for SOD

Cat PA00644

Size 200 µl

Host

Rabbit

Clonality

Polyclonal

Confirmed reactivity

Arabidopsis thaliana, Brassica juncea, Oryza sativa, Zea mays

Immunogen

The antibody is raised to the Arabidopsis thaliana full length CCs protein Q4ZJI5, fused to His-tag. Overexpressed using pET28a vector in BL21 E. coli (Cd+) and purified using His-column. After purification, the His tag is cleaved using thrombin and then the protein is purified using Resource-Q column connected to HPLC.

Host

Rabbit

Clonality

Polyclonal

Purity

Serum

Format

Lyophilized

Reconstitution

For reconstitution add 200 µl of sterile water

Storage

Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube.

Application

Western blot (WB)

Recommended dilution

1 : 1000 (WB)

Expected | apparent MW

33.8 | 37 kDa (Arabidopsis thaliana)

Confirmed reactivity

Arabidopsis thaliana, Brassica juncea, Oryza sativa, Zea mays

Predicted reactivity

Glycine max, Hordeum vulgare, Solanum tuberosum

Not reactive in

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

CCS | Chloroplastic copper chaperone for SOD

Cat PA00644

Size 200 μ l

No confirmed exceptions from predicted reactivity are currently known

Description

Copper is an essential element for chloroplast function. It is a cofactor of superoxide dismutase (SOD) and plastocyanin. Copper is transported to the chloroplast with the help of copper chaperones, which are responsible for transporting copper from the transporter to the target. In the final step, the chaperone protein binds to the copper-dependent enzyme and inserts copper ions into its active site. The Arabidopsis gene AtCCS encodes the copper chaperone of SOD. The AtCCS protein is localized to the chloroplast, where it may supply copper to the matrix Cu/ZnSOD.

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY
