

FOX1 | plasma membrane ferroxidase FLP1

Cat PA01181

Size 200 µl

Host

Rabbit

Clonality

Polyclonal

Confirmed reactivity

Chlamydomonas reinhardtii

Immunogen

residues 394-646 from *Chlamydomonas reinhardtii* FOX1 A8IZT9 fused to TrxA

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

immunofluorescence (IF), Western blot (WB)

Recommended dilution

1 : 1000-1 : 5000 (WB)

Expected | apparent MW

122 | 120 kDa

Confirmed reactivity

Chlamydomonas reinhardtii

Predicted reactivity

Chlamydomonas reinhardtii

Not reactive in

No confirmed exceptions from predicted reactivity are currently known

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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Additional information

FOX1 is 10-20-fold induced in iron-deficiency and its occurrence therefore serves as a marker of iron nutrition state in Chlamydomonas. For detection image please refer to the article below., This antibody has been used on Chlamydomonas cells expressing endogenous Fox1 and on HEK293 cells transiently expressing Fox1. Cells are resuspended in PBS plated on poly-lysine coated coverslips, fixed in 3.7% formaldehyde. Blocked in 3% BSA in PBS. 1:500 dilution of anti-FOX1 in 3% BSA. Secondary antibody is anti-rabbit Alexa fluor 488 1:300.

Description

Cupric protein in Chlamydomonas reinhardtii is a plasma-membrane ferrioxalase enzyme encoded by FOX1 gene and involved in iron assimilation. FOX1 is most closely related to the mammalian homologues hephaestin and ceruloplasmin. Its appearance and expression patterns in chlamydomonas indicate the role of copper in iron assimilation in photosynthetic species.

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