

Product no **AS06 120****Anti-FOX1 | plasma membrane ferroxidase FLP1****Product information****Immunogen** | residues 394-646 from *Chlamydomonas reinhardtii* FOX1 A8IZT9 fused to TrxA**Host** | Rabbit**Clonality** | Polyclonal**Purity** | Serum**Format** | Lyophilized**Quantity** | 200 µl**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.**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.**Application information****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**Additional information** | This antibody has been used on *Chlamydomonas* cells expressing endogenous Fox1 and on HEK293 cells transiently expressing Fox1. Cells were 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 was anti-rabbit Alexa fluor 488 1:300.**Selected references** | Kropat et al. (2015). Copper economy in *Chlamydomonas*: Prioritized allocation and reallocation of copper to respiration vs. photosynthesis. *Proc Natl Acad Sci U S A*. 2015 Feb 2. pii: 201422492.
LaFontaine et al. (2002) Copper-Dependent Iron Assimilation Pathway in the Model Photosynthetic Eukaryote *Chlamydomonas reinhardtii*. *Eukaryotic Cell* 1(5):736-757