

Anti- Ferredoxin (*P. falciparrum*) antibody, rabbit polyclonal

81-023 200 µg

Shipping and Storage: Shipped at 4°C or -20°C and store at -20°C. Do not freeze.

Immunogen: Ferredoxin (Pd) protein purified from Malaria parasite, *Plasmodium falciparum*..

Form: 4 mg/ml in PBS- with 50% glycerol. Filter sterilized. No preservative or carrier protein added.

Purity: IgG, Protein A purified.

Reactivity: *P. alciparum* Ferredoxin

Applications:

1. Western blotting (1/500-1/2,000 dilution)
2. Immunofluorescent staining (assay dependent)
3. ELISA (assay dependent)

Other applications have not been tested.

Background: Ferredoxins are iron-sulfur proteins that transfer electrons in a wide variety of metabolic reactions.

Subcellular location: Apicoplast (plastid-like organelle)

Data Link: UniProtKB [Q81ED5](#) (FER_PLAF7)

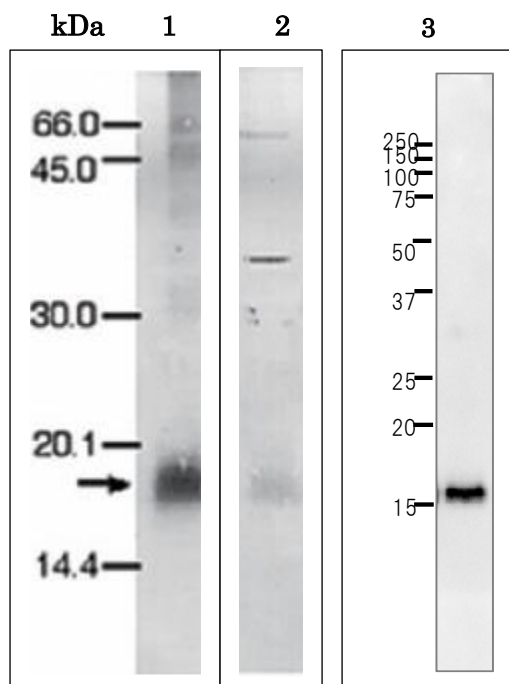


Fig.1 Western Blot of *P. falciparum*.Ferredoxin.

Anti-*Pf* Fd antibody was used at 1/1,000 dilution.

Secondary antibody (goat anti-rabbit IgG antibody HRP-conjugated) was used

1. Purified recombinant *Pf* Ferredoxin. 10 ng
2. Partially purified *Pf* Ferredoxin from culture of *P. falciparum*.
3. Purified recombinant *Pf* Ferredoxin. 1.4 ng

Molecular mass of *Pf* Fd is 18 kDa

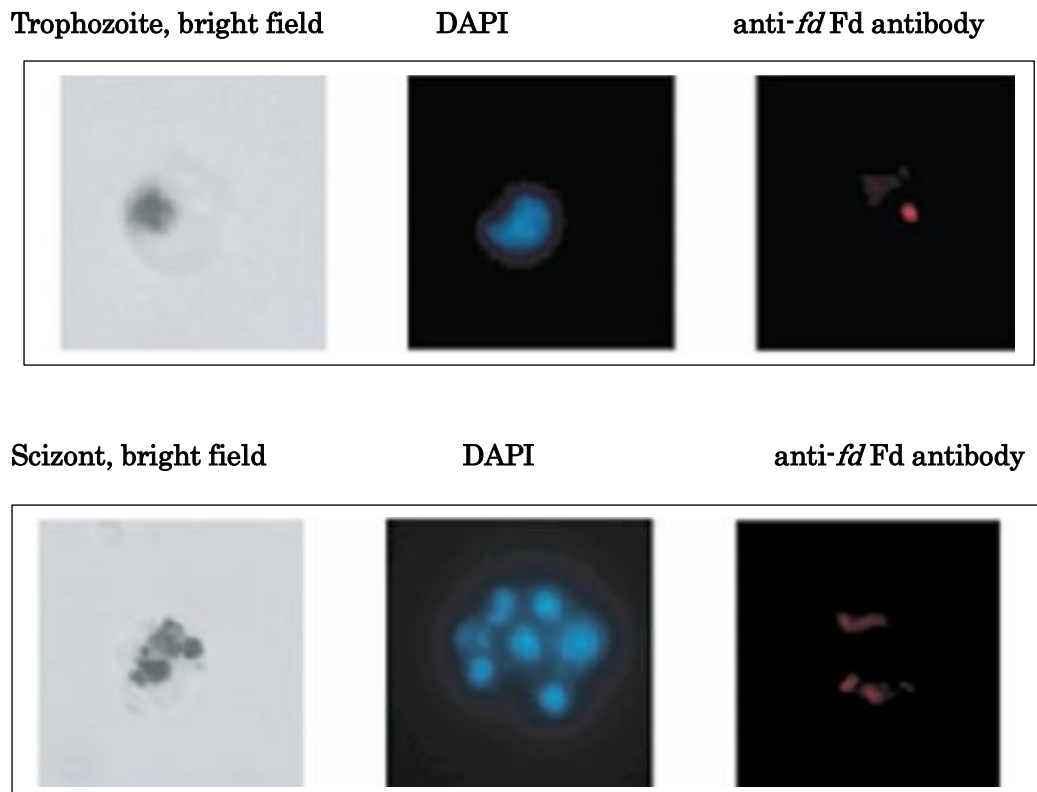


Fig. 2 Immunofluorescence staining of ferredoxin in *P. alciparum*.

Trophozoite and schizont stages of *P. alciparum* were stained with the anti- *Pf* Fd antibody (right panels, red color). Nuclear DNA was stained with DAPI (middle panels, blue color). Dark spots in bright field microscopy (left panels) are hemozoin pigment.

Reference: This product has been used in the following publications.

1. Kimata-Arigo Y. et al. Cloning and characterization of ferredoxin and ferredoxin-NADP⁺ reductase from human malaria parasite. *J Biochem*. 2007 Mar;141(3):421-8. PMID [17251200](#) WB, IF; *P. alciparum*.
2. Kobayashi T. et al. Mitochondria and apicoplast of Plasmodium falciparum: behaviour on subcellular fractionation and the implication. *Mitochondrion*. 2007 Feb-Apr;7(1-2):125-32. PMID: [17289446](#) WB; *P. alciparum*.