

Anti-Ferredoxin-3 (*P. falciparum*) antibody, rabbit polyclonal

Cat. # **81-023** Size: **200 µg**

Background:

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

Subcellular location: Apicoplast (plastid-like organelle)

Specifications:

Storage: Shipped at 4°C and store at -20°C

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

Purity: IgG, affinity-purified with Protein A

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

Reactivity: *Plasmodium falciparum* Ferredoxin

Applications

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

Other applications have not been tested.

Data Link: UniProtKB [Q8IED5](#) (FER_PLAF7)

References: This product has been used in the following publication.

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. falciparum*.
2. Kobayashi T. et al. Mitochondria and apicoplast of Plasmodium falciparum: behavior on subcellular fractionation and the implication. Mitochondrion. 2007 Feb-Apr;7(1-2):125-32. PMID: [17289446](#) WB; *P. falciparum*.

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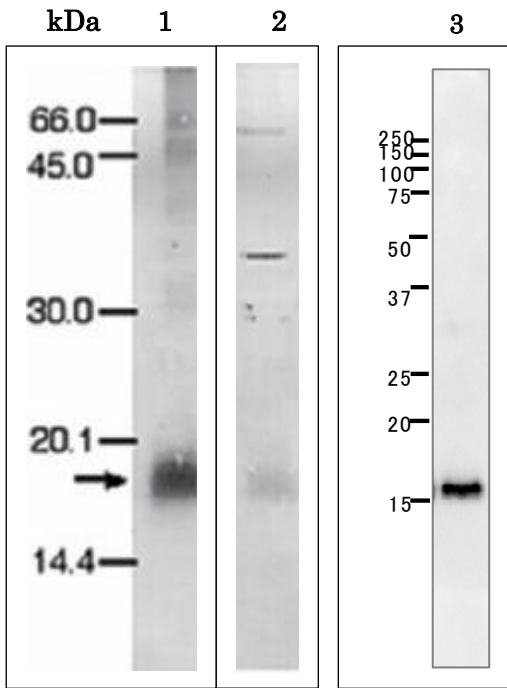


Fig.1 Western Blot of *P. falciparum*. Ferredoxin.

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

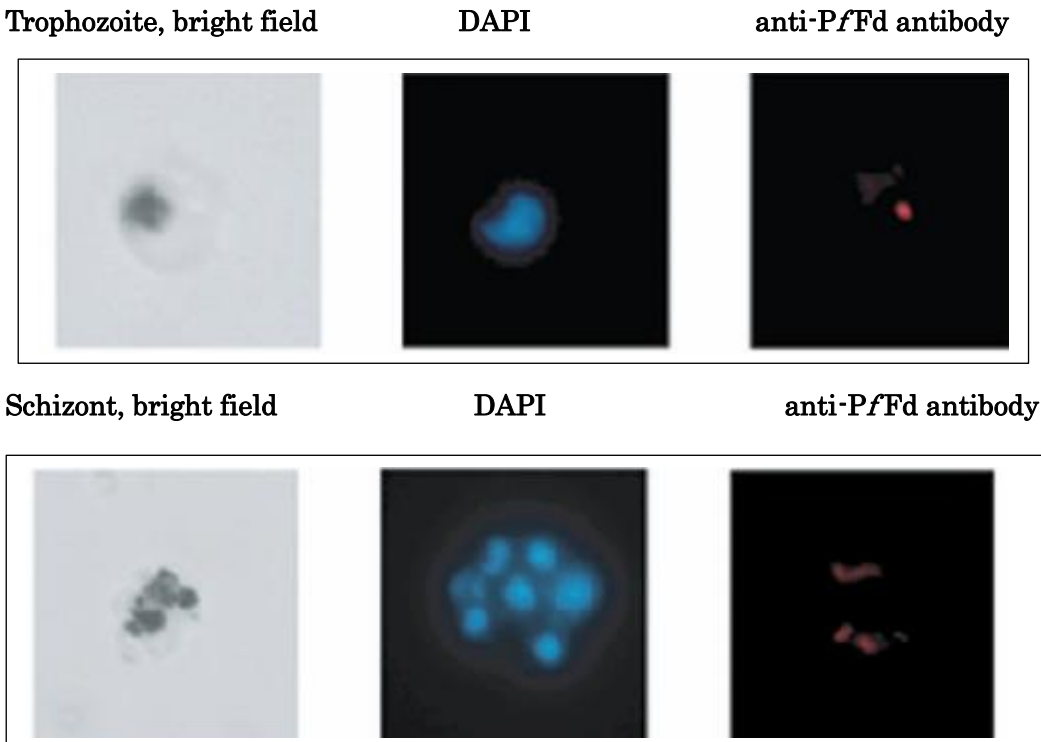


Fig. 2 Immunofluorescence staining of ferredoxin in *P. falciparum*.

Trophozoite and schizont stages of *P. falciparum* 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.