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

Product code	81-023
Size	200 µg
Storage	-20℃
Concentration	4.0 mg/ml
Buffer	PBS- with 50% glycerol
Purity	Purified IgG fraction with protein A from rabbit antiserum.
Immunogen	Ferredoxin (Pd) protein purified from Malaria parasite, *Plasmodium falciparum.*
Isotype	Rabbit IgG
Reactivity	*P. alciparum* Ferredoxin
Special notes	N/A
Application	1. Western blotting (1/500-1/2,000 dilution) 2. Immunofluorescent staining (assay dependent) 3. ELISA (assay dependent)
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 Q8IED5 (FER_PLAF7)

Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.

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Data Images: 81-023 Anti-Ferredoxin (*P. falciparum*) antibody, rabbit polyclonal

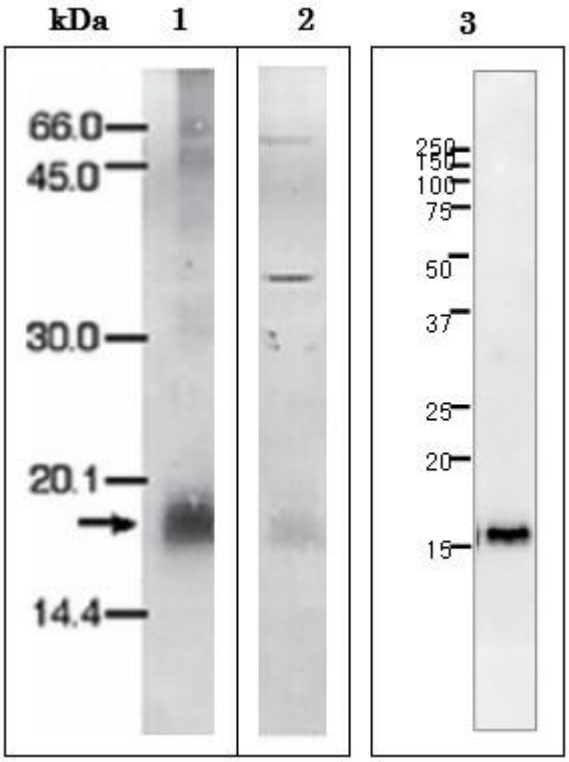

Fig.1 Western Blot of *P. falciparum*.Ferredoxin.

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

Molecular mass of *Pf* Fd is 18 kDa

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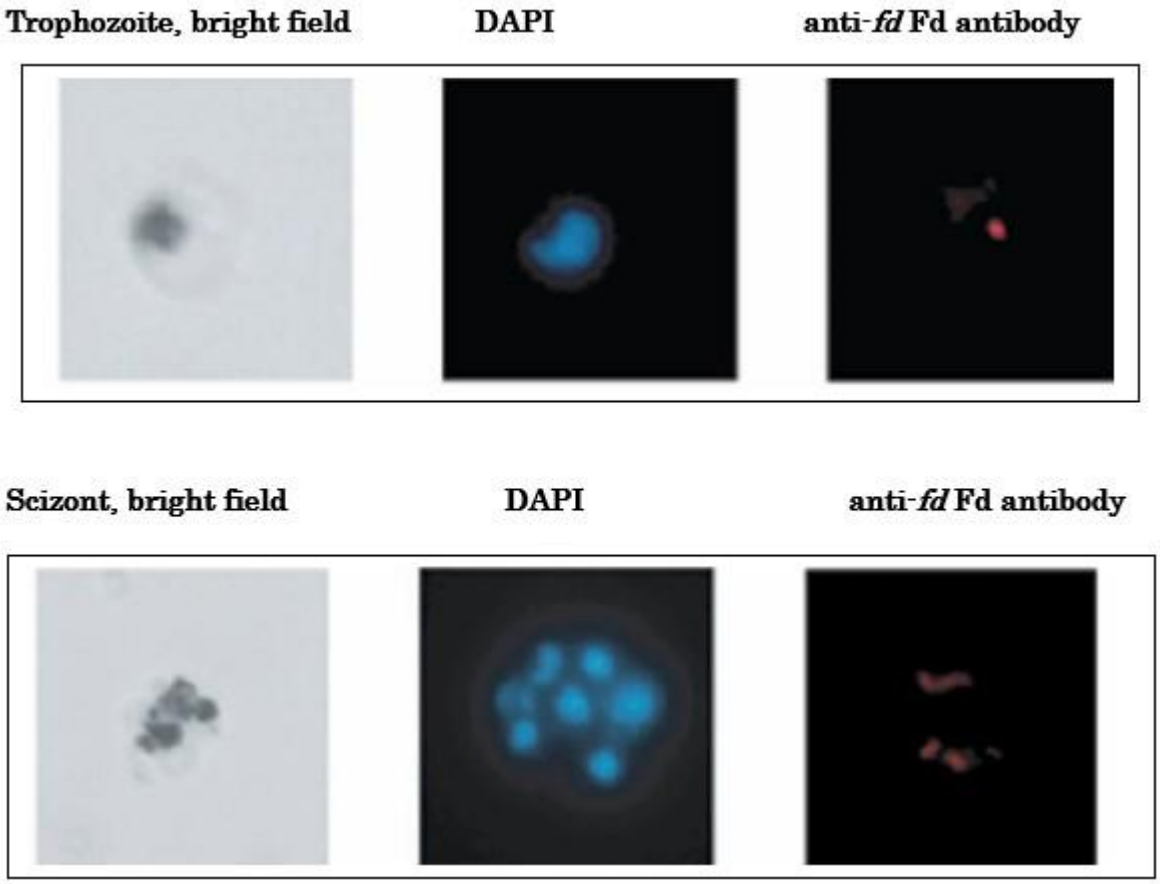

Fig. 2 Immunofluorescence stainig of ferredoxin in *P. alciparum.*

Trophozoit and shizont 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-Ariga 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*.**

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