Anti-*Pf*-FNR (Ferredoxin--NADP reductase) (*P. falciparum*) antibody, rabbit polyclonal

Product code	81-009
Size	400 µg
Storage	-20℃
Concentration	4.0 mg/ml
Buffer	PBS- with 50% glycerol
Purity	Purified IgG fraction with protein A from rabbit antiserum.
Immunogen	Purified recombinant *P. falciparum* Ferredoxin-NADP reductase (full-size, no-tag attached) expressed in *E. coli.*
Isotype	Rabbit IgG
Reactivity	FNR protein of *Plasmodium falciparum*. Cross-reacts also with plant FNR isoproteins.
Special notes	N/A
Application	1. Western blotting (1/500-1/2,000 dilution). Extract for western blotting should be made from apicoplast fraction of *P. falciparum.* 2. ELISA (assay dependent)
Background	Fd:NADPH oxidoreducatase (FNR) plays a key role in regulating the relative amounts of cyclic and non-cyclic electron flow to meet the demands of the plant for ATP and reducing power. The human malaria parasite (Plasmodium falciparum) possesses a plastid-derived organelle called the apicoplast, which is believed to employ metabolisms crucial for the parasite's survival. Subcellular location: Apicoplast (plastid-like organelle)
Data Link	UniProtKB C6KT68 (FENR_PLAF7)

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Data Images: 81-009 Anti-Pf-FNR (Ferredoxin--NADP reductase, P. falciparum) antibody, rabbit polyclonal

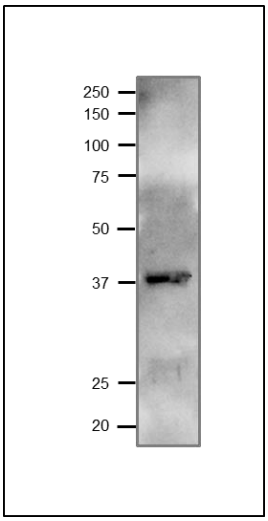

Fig.1 Western blot of Ferredoxin--NADP reductase of *P. falciparum* with anti-*Pf* FNR antibody.

Anti-*Pf* FNR antibody was used at 1/1,000 dilution. Second antibody (goat anti-rabbit IgG antibody HRP-conjugated, ab97051) was used at 1/10,000 dilution.

Sample; 1 µl of 40 µM recombinant *pf* FNR

Molecular mass indicated from the gene is 43,8 kDa. However, transit peptide consisting of N-terminal 18 amino acids is removed in the mature form.

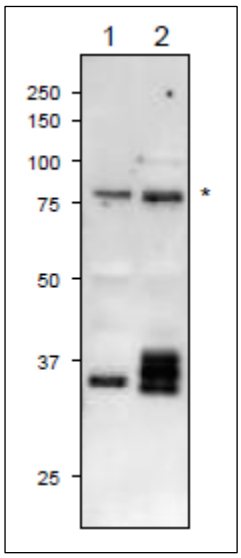

Fig.2 The anti-*Pf*-FNR antibody reacts also with plant FNR proteins in western blotting.

1. Extract of Arabidopsis leaf (10 ug)
2. Extract of Maize leaf (10 ug)

The antibody was used at 1/1,000 dilution

Astrerisk indicates a nonspecific band.

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Reference: Recombinant *Pf*-FNR is described in the following publication.

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. falciparum.***

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