

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

81-009 400 µg

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

**Immunogen:** Purified recombinant *P. falciparum* Ferredoxin-NADP reductase (full-size, no-tag attached) expressed in *E. coli*.

**Form:** 4 mg/ml in PBS- with 50% glycerol. Filter sterilized. Azide and carrier free.

**Purity:** Protein A purified IgG

**Reactivity:** FNR protein of *Plasmodium falciparum*. Cross-reacts also with plant FNR isoproteins .

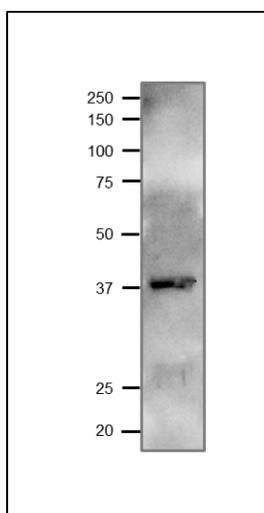
**Applications:**

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 oxidoreductase (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:** UniProKB [C6KT68](#) (FENR\_PLAF7)

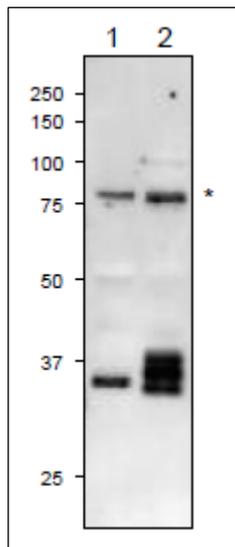


**Fig.1 Western blot of Ferredoxin--NADP reductase of *P. falciparum* with anti-*Pf*FNR antibody.**

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  
Asterisk indicates a nonspecific band.

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

1. Kimata-Arigo Y et al. Cloning and characterization of ferredoxin and ferredoxin-NADP<sup>+</sup> reductase from human malaria parasite. [J Biochem](#). 2007 Mar;141(3):421-8 PMID:17251200. **WB, IF; *P. falciparum*.**