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Product no AS20 4435

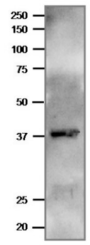
FNR | Ferredoxin NADP Reductase (Plasmodium falciparum)

Product information

Immunogen	Purified full length, tag cleaved, recombinant *Plasmodium falciparum* FNR, UniProt: C6KT68
Host	Rabbit
Clonality	Polyclonal
Purity	Total IgG. Protein A purified in PBS, 50% glycerol. Filter sterilized.
Format	Liquid at 4 mg/ml.
Quantity	400 µg
Storage	Store at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube.

Application information

Recommended dilution	1: 500 - 1: 2000 (WB)
Expected | apparent MW	43,8 | 38 kDa (transit peptide removed)
Confirmed reactivity	*Plasmodium falciparum*
Additional information	For western blot apicoplast fraction from *Plasmodium falciparum* is recommended, not a total cell extract.
Selected references	Kimata-Ariga et al. (2007). Cloning and Characterization of Ferredoxin and ferredoxin-NADP+ Reductase From Human Malaria Parasite. J Biochem. 2007 Mar;141(3):421-8. doi: 10.1093/jb/mvm046. Kimata-Ariga et al. (2007). Cloning and Characterization of Ferredoxin and ferredoxin-NADP+ Reductase From Human Malaria Parasite. J Biochem. 141(3):421-8. doi: 10.1093/jb/mvm046.



1 µl of 40 µM recombinant pf FNR from *Plasmodium falciparum* with 2x SDS-sample buffer (+ 2ME) for SDS-PAGE and denatured with 4X SDS buffer at 95°C for 5 min. Samples were separated on 10% SDS-PAGE and blotted 1h to PVDF membrane. Blot was blocked with 3 % skim milk/TBS-T, 1h/RT with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1000 in TBS-T for 1h/RT. The antibody solution was decanted and the blot was washed 4 times for 10 min in TBS-T at RT with agitation. Blot was incubated in matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1:10 000 in for 1h/RT with agitation. The blot was washed as above and developed with a chemiluminescent detection reagent, following manufacture's recommendation.

Calculated MW of FNR is: 43,8 kDa. However, transit peptide consisting of N-terminal 18 amino acids is removed in the mature form.