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Product no AS20 4429

Anti-Ferredoxin, apicoplast (Plasmodium falciparum)

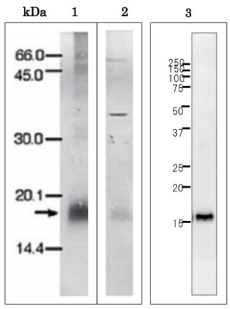
Product information

Immunogen	Ferredoxin purified from Malaria parasite, *Plasmodium falciparum*, UniProt:Q8IED5
Host	Rabbit
Clonality	Polyclonal
Purity	Total IgG. Protein A purified in PBS, 50% glycerol. Filter sterilized.
Format	Liquid at 4 mg/ml.
Quantity	200 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

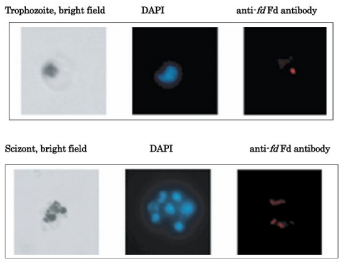
Recommended dilution	1: 500 - 1: 2000 (WB)
Expected | apparent MW	18 kDa
Confirmed reactivity	*Plasmodium falciparum*
Selected references	Kimata and Ariga et al. (2007). Cloning and Characterization of Ferredoxin and ferredoxin-NADP+ Reductase From Human Malaria Parasite. J Biochem. 141(3):421-8. doi: 10.1093/jb/mvm046. Kabayashi et al. (2007). Mitochondria and Apicoplast of Plasmodium Falciparum: Behaviour on Subcellular Fractionation and the Implication. Mitochondrion 7(1-2):125-32. doi: 10.1016/j.mito.2006.11.021.

Western blot



10 ng of purified, recombinant pf FNR from *Plasmodium falciparum* **(1)**, partially purified ferredoxin from culture of *Plasmodium falciparum* **(2)**, 1.4 ng of purified, recombinant ferredoxin from *Plasmodium falciparum (3)* 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.

Immunofluorescence



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Trophozoit and shizont stages of *Plasmodium falciparum* were stained with the anti-ferredoxin antibodies (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.
Plasmodium falciparum parasitic cells were fixed with 4 % paraformaldehyde in PBS on ice for 30 minutes, spread onto slides and air dried.
Permabilization was done with: PBS with 1 % Triton X-100. Blocking: 3 % BSA in PBS for 3 h.
Secondary antibody: Cy3 conjugated, 1: 1000
Primary antibody: 1: 100