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Product no AS20 4437

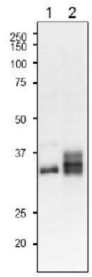
Anti-FNR3 | Ferredoxin NADP Reductase, isoprotein 3 (leaf)

Product information

Immunogen	Purified full-length, tag cleaved, recombinant maize leaf FNR3, UniProt: B4FUM2
Host	Rabbit
Clonality	Polyclonal
Purity	Total IgG. Protein A purified in PBS, 50% glycerol. Filter sterilized.
Format	Liquid at 1 mg/ml.
Quantity	100 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: 1000 (WB)
Expected | apparent MW	40.6 | 34.7 kDa
Confirmed reactivity	*Arabidopsis thaliana, Zea mays*
Predicted reactivity	*Dichanthelium oligosanthes, Panicum hallii, Sorghum bicolor* Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	This antibody is also detecting other maize L-FNRs: FNR2 and FNR1 in *Zea mays* and *Arabidopsis thaliana* leaf extracts, in the order of reactivity in each species.
Selected references	Okutani et al. (2005). Three Maize Leaf ferredoxin:NADPH Oxidoreductases Vary in Subchloroplast Location, Expression, and Interaction With Ferredoxin. Plant Physiol . 2005 Nov;139(3):1451-9. doi: 10.1104/pp.105.070813. Okutani et al. (2005). Three Maize Leaf ferredoxin:NADPH Oxidoreductases Vary in Subchloroplast Location, Expression, and Interaction With Ferredoxin. Plant Physiol. 2005 Nov;139(3):1451-9. doi: 10.1104/pp.105.070813.



2 µg/well of leaf total protein of *Arabidopsis thaliana* wild type leaf **(1)**, *Zea mays* leaf **(2)** were freshly extracted with 2x SDS-sample buffer (+ 2ME) for SDS-PAGE. For IP, 150mM NaCL, 1% Triton X-100, 50 mM Tris-HCl (pH 8.0) 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 1-2h/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.

Molecular weight of mature forms of maize L-FNRs:
34.97 kDa (FNR1, *Zea mays*), 35.57 kDa (FNR2, *Zea mays*), 34.7 kDa (FNR3, *Zea mays*)