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Product no AS20 4434

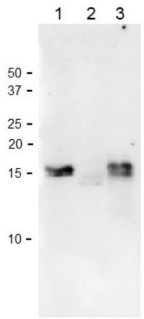
Anti-Fd1 | Ferredoxin 1 (chloroplastic)

Product information

Immunogen	Purified full length, tag cleaved, recombinant maize Fd1, UniProt: P27787
Host	Rabbit
Clonality	Polyclonal
Purity	Total IgG, Protein A purified.
Format	Liquid at 1 mg/ml, in PBS with 50% glycerol.
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.

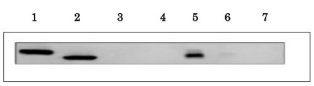
Application information

Recommended dilution	Assay dependent (ELISA), 1: 1000 - 1: 5000 (WB)
Expected | apparent MW	12 | 15 kDa
Confirmed reactivity	*Arabidopsis thaliana, Zea mays*
Predicted reactivity	*Brassica napus, Brassica oleracea, Eutrema salsugineum, Raphanus sativus* Species of your interest not listed? Contact us
Not reactive in	*Nicotiana benthamiana*
Selected references	Hanke and Hase (2008). Variable Photosynthetic Roles of Two Leaf-Type Ferredoxins in Arabidopsis, as Revealed by RNA Interference. Photochem Photobiol. 84(6):1302-9. doi: 10.1111/j.1751-1097.2008.00411.x. Kimata and Hase (1989). Localization of Ferredoxin Isoproteins in Mesophyll and Bundle Sheath Cells in Maize Leaf. Plant Physiol. 89(4):1193-7. doi: 10.1104/pp.89.4.1193.



Recombinant Fd1 from *Zea mays* **(1)**, 10 µg/well of leaf total protein of *Arabidopsis thaliana* wild type leaf **(2)**, *Zea mays* leaf **(3)** 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 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.

Molecular weight of mature Fd1 is around 12 kDa but it migrates at 15 kDa in applied gel system.



200 nmol of recombinant Ferredoxin-1 (Fd1) from *Arabidopsis thaliana* **(1)**,
200 nmol of recombinant Ferredoxin-2 (Fd2) from *Arabidopsis thaliana* **(2)**,
200 nmol of recombinant Ferredoxin-3 (Fd3) from *Arabidopsis thaliana* **(3)**,
20 nmol of recombinant Ferredoxin-4 (Fd4) from *Arabidopsis thaliana* **(4)**,
Leaf extract of *Arabidopsis thaliana*, soluble fraction precipitated with 70 % ammonium sulfate **(5)**,

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Leaf extract of *Arabidopsis thaliana*, insoluble fraction precipitated with 70 % ammonium sulfate **(6),**
Root extract of *Arabidopsis thaliana* **(7).** 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: 200 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.