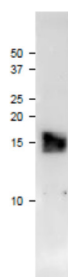


Product no **AS20 4432****Fd3 | Ferredoxin 3****Product information**

<b>Immunogen</b>	Purified full length, tag cleaved, recombinant maize Fd3, UniProt: <a href="#">P27788</a>
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Purity</b>	Total IgG. Protein A purified in PBS, 50% glycerol. Filter sterilized.
<b>Format</b>	Liquid at 1 mg/ml.
<b>Quantity</b>	100 µg
<b>Storage</b>	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**

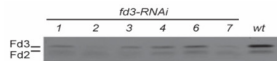
<b>Recommended dilution</b>	1: 2000 - 1: 10 000 (WB)
<b>Expected   apparent MW</b>	16 kDa
<b>Confirmed reactivity</b>	<i>Arabidopsis thaliana</i> , <i>Zea mays</i>
<b>Predicted reactivity</b>	<i>Brachypodium distachyon</i> , <i>Dichantheium oligosanthes</i> , <i>Hordeum vulgare</i> , <i>Oryza sativa</i> , <i>Panicum hallii</i> , <i>Saccharum sp.</i> , <i>Setaria italica</i> Species of your interest not listed? <a href="#">Contact us</a>
<b>Not reactive in</b>	No confirmed exceptions from predicted reactivity are currently known
<b>Additional information</b>	Antibody reacts weakly with other ferredoxins: <i>Arabidopsis thaliana</i> and <i>Zea mays</i> Fd2 and <i>Zea mays</i> Fd6.
<b>Selected references</b>	<a href="#">Hanke</a> and Hase (2008). Variable Photosynthetic Roles of Two Leaf-Type Ferredoxins in Arabidopsis, as Revealed by RNA Interference. <i>Photochem Photobiol.</i> 84(6):1302-9. doi: 10.1111/j.1751-1097.2008.00411.x. <a href="#">Hanke</a> et al. (2003). A Post Genomic Characterization of Arabidopsis Ferredoxins. <i>Plant Physiol.</i> 134(1):255-64. doi: 10.1104/pp.103.032755. <a href="#">Matsumura</a> et al. (1997). A Nitrate-Inducible Ferredoxin in Maize Roots. Genomic Organization and Differential Expression of Two Nonphotosynthetic Ferredoxin Isoproteins. <i>Plant Physiol.</i> 114(2):653-60. doi: 10.1104/pp.114.2.653.



Fd3 purified from leaves of *Zea mays*, 50 ng was 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: 2000 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.

Total leaf extract of *Arabidopsis thaliana* (1) and *Zea mays* (2), 10 µg 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: 10 000 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.

The antibody is also recognizing root-type ferredoxins expressed in leaves.



Different RNAi (lane 1-7) expressed in T1 *Arabidopsis thaliana* plants and wild type without any RNAi expression. 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: 5000 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.