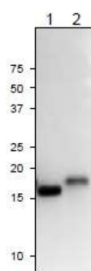


Product no **AS20 4433****Fd2 | Ferredoxin 2 (chloroplastic)****Product information**

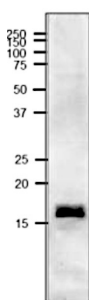
<b>Immunogen</b>	Purified full length, tag cleaved, recombinant maize Fd2, UniProt: <a href="#">P16972</a>
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Purity</b>	Total IgG. Protein A purified in PBS, 50% glycerol. Filter sterilized.
<b>Format</b>	Liquid at 2 mg/ml.
<b>Quantity</b>	100 µg
<b>Storage</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: 1000 - 1: 5000 (WB)
<b>Expected   apparent MW</b>	15 kDa
<b>Confirmed reactivity</b>	<i>Arabidopsis thaliana</i> , <i>Synechocystis</i> PCC 6803, <i>Zea mays</i>
<b>Predicted reactivity</b>	<i>Brachypodium distachyon</i> , <i>Oryza sativa</i> , <i>Setaria italica</i> , <i>Sorghum bicolor</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>Selected references</b>	<a href="#">Ramirez</a> et al. (2013). Glutathione and ascorbic acid protect Arabidopsis plants against detrimental effects of iron deficiency. <a href="#">Hanke</a> et al. (2004). A post genomic characterization of Arabidopsis ferredoxins. Plant Physiol. 2004 Jan;134(1):255-64. Epub 2003 Dec 18 (Western blot, Arabidopsis thaliana)



10 µg/well of *Arabidopsis thaliana* total leaf extract (**1**), 10 µg/well of *Zea mays* total leaf extract (**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 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.



5 µg of crude extract of *Synechocystis* PCC6803 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.