Anti- Ferredoxin-2 antibody, rabbit polyclonal

81-017　100 µg

Storage: Ship at 4°C and store at -20°C. Do not freeze.

Immunogen: Purified recombinant Arabidopsis Fd2 protein (full-size, no-tag attached)

Reactivity: Plant Fd2 isoproteins including those of Arabidopsis and Maize. Reacts also with Cyanobacteria Ferredoxin.

Validation: Specificity has been validated by western blotting with recombinant arabidopsis Ferredoxin-2 (Fd2).

Applications:

1. Western blotting (1/1,000-1/5,000 dilution)
2. ELISA (Assay dependent)

Other Applications have not been tested

Purity: Protein A purified IgG

Form: 2 mg/ml in PBS, 50% glycerol. Filter sterilized. No preservative or carrier protein added.

Background: Ferredoxins are iron-sulfur proteins that transfer electrons in a wide variety of metabolic reactions. Occupies a key position both for transferring the photoreducing power to Fd-NADP+ oxidoreductase (FNR), hence the formation of NADPH, and for mediating the cyclic electron flow around photosystem I (PSI).Fd2 is most abundant Fd isoproteins expressed in plant leaves.

Subcellular location: Chloroplast, Plastid.

Data Link: UniProtKB/Swiss-Prot P16972 (A. thaliana), O80429 (Z. mays), P08451 (Synechococcus)

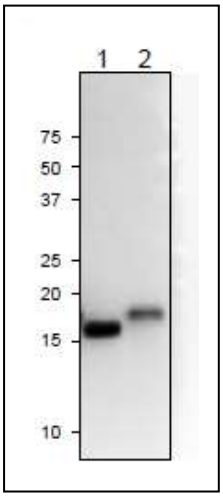

Fig.1 Western Blot of plant Fd2 proteins with the anti-Ferredoxin-2 antibody.

Anti-Fdx2 antibody was used at 1/1,000 dilution. Secondary antibody (goat anti-rabbit IgG antibody HRP-conjugated, ab97051) was used at 1/10,000 dilution.

1. Arabidopsis leaf extract, 10 µg
2. Maize leaf extract, 10 µg

Molecular mass of Arabidopsis Fd2 is 16 kDa

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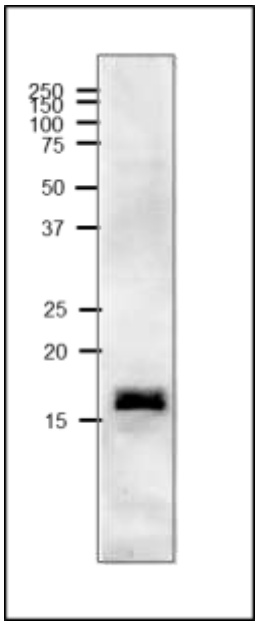

Fig.2 Western blot of Ferredoxin in crude extract of Cyanobacterium, Synechocystis.

Sample: Crude extract of Synechocystis PCC 6803.
15% SDS-PAGE
First antibody, the anti-Ferredoxin-2 antibody was used at 1/1,000 dilution. As 2nd antibody, HRP-conjugated goat anti-rabbit IgG antibody (ab 97051) was used at 1/10,000 dilution.

Reference: This product has been used in the following publications.

1. Hanke GT, Kimata-Ariga Y, Taniguchi I, Hase T. A post genomic characterization of Arabidopsis ferredoxins. Plant Physiol. 2004 Jan;134(1):255-64. Epub 2003 Dec 18. PMID: 14684843 **WB;arabidopsis**
2. Ramirez L. et al. Glutathione and ascorbic acid protect Arabidopsis plants against detrimental effects of iron deficiency. J Exp Bot. 2013 Aug;64(11):3169-78. PMID: 23788722 **WB; arabidopsis**