

Anti-Ferredoxin-2 (plant) antibody, rabbit polyclonal

Cat. # **81-017** Size: **100 µg**

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 and Plastid

Specifications:

Storage: Shipped at 4°C and store at -20°C

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

Purity: IgG, affinity-purified with Protein A

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

Reactivity: Plant Fd2 proteins including that of maize and Arabidopsis.

Validation: Specificity has been validated by Western blot with recombinant Arabidopsis Ferredoxin-2 (Fd2) protein.

Applications

1. Western blot (1/1,000- 1/5,000 dilution)
2. ELISA (assay dependent)

Other applications have not been tested.

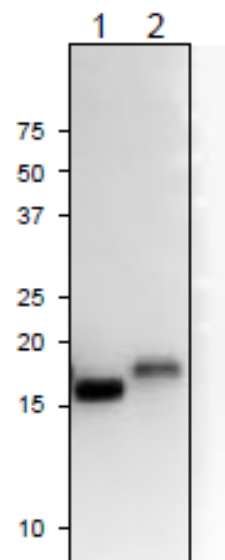
Data Link: Swiss-Prot [P16972](#) (*A. thaliana*), [O80429](#) (*Z. mays*)

Fig. 1 Western Blot of Fd2 protein with anti-Ferredoxin-2 (arabidopsis) 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.

3. Arabidopsis leaf extract, 10 µg
4. Maize leaf extract, 10 µg



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References: This product has been used in the following publication.

1. Hanke GT, Kimata-Arigo 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

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