

Anti-FdC1 (Ferredoxin-C1) antibody, rabbit polyclonal

Cat. # **81-021** Size: **100 µg**

Background:

Ferredoxins are iron-sulfur proteins that transfer electrons in a wide variety of metabolic reactions. Higher plants also possess genes for significantly different, as yet uncharacterized Fd proteins, with extended C termini (FdCs). Whether these FdC proteins function as photosynthetic electron transfer proteins is not known. It has been suggested that FdC1 has a specific function in conditions of acceptor limitation at PSI, and channels electrons away from NADP(+) photoreduction.

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 Ferredoxin-C1 protein (full size, no tag attached)

Reactivity: Plant FdC1 proteins including that of maize and Arabidopsis.

Applications

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

Other applications have not been tested.

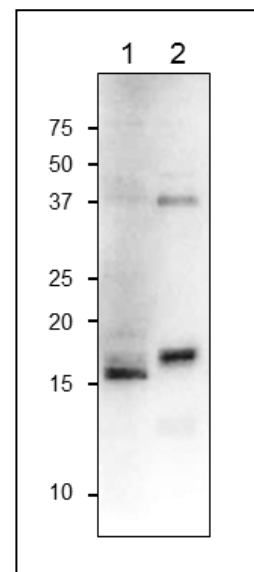
Data Link: UniProtKB:[O23344](https://www.uniprot.org/entry/O23344) (O23344_ARATH)

Fig. 1 Western Blot of Fdx2 protein.

Anti-FdC1 antibody was used at 1/1,000 dilution. Second 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 FdC1 is 16.7 kDa



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

1. Voss I. et al. FdC1, a novel ferredoxin protein capable of alternative electron partitioning, increases in conditions of acceptor limitation at photosystem I. J Biol Chem. 2011 Jan 7;286(1):50-9. PMID: 20966083. WB; Arabidopsis

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