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

81-021　100 µg

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

Immunogen: Purified recombinant Arabidopsis Ferredoxin-C1 protein (full-size, no-tag attached)

Reactivity: Plant FdC1 proteins including those of Arabidopsis and Maize.

Applications:

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

Purity: Protein A purified IgG.

Form: 2 mg/ml in PBS, 50% glycerol. Filter sterilized. No preservative nor carrier protein added.

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.

Data Link: UniProtKB:O23344 (O23344_ARATH)

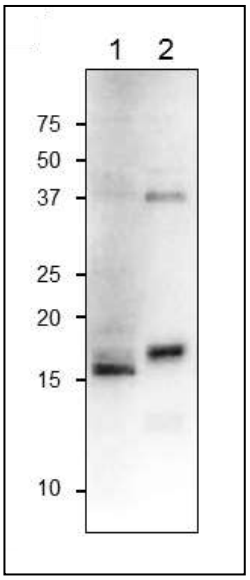

Fig.1　Western Blot of Fdx2 protein.

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

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

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**