

Anti- Ferredoxin mix (plant) antibody, rabbit polyclonal

81-015 100 µg

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

Immunogen: A mixture of four Maize Ferredoxin isoproteins, Fd1, Fd2, Fd3 and Fd4.

Form: 2 mg/ml in PBS⁻ with 50% glycerol. Filter sterilized. Azide⁻ and carrier-free.

Purity: IgG, affinity-purified with Protein A.

Reactivity: Essentially all plant Ferredoxin (Fd) isoproteins including those of Arabidopsis and Maize.

Applications:

1. Western blotting (1/1,000-1/10,000 dilution)
2. ELISA (assay dependent)

Other applications have not been tested.

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).

Data Link: Swiss-Prot [O04090](#) (A. thaliana Fd1), [P27787](#) (Z. mays Fdx1)

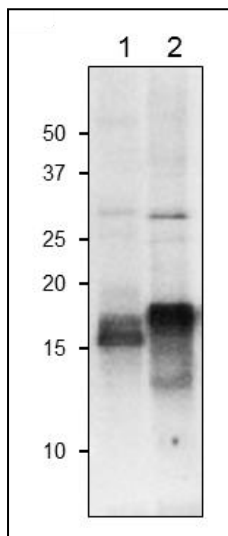


Fig.1 Western Blot of Fd in plant leaf extract.

Anti-Fd antiserum 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 masses of Fd isoproteins are about 12 kDa, but they migrate at the position around 16-17 kDa on the SDS-PAGE gel due to their strong acidic nature.

1. Hase T. et al. Molecular cloning and differential expression of the maize ferredoxin gene family. [Plant Physiol.](#) 1991 May;96(1):77-83. PMID: [16668188](#) **WB; maize**