Anti-Ferredoxin mix (Maize) antibody, rabbit polyclonal

Product code	81-015
Size	100 µg
Storage	-20℃
Concentration	2.0 mg/ml
Buffer	PBS- with 50% glycerol
Purity	Purified IgG fraction with protein A from rabbit antiserum.
Immunogen	A mixture of four Maize Ferredoxin isoproteins, Fd1, Fd2, Fd3 and Fd4.
Isotype	Rabbit IgG
Reactivity	Essentially all plant Ferredoxin (Fd) isoproteins including those of Arabidopsis and Maize.
Special notes	N/A
Application	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	UniProtKB O04090 (A. thaliana Fd1), P27787 (Z. mays Fdx1)

Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.

BioAcademia,Inc. Tel. 81-6-6877-2335 Fax. 81-6-6877-2336 info@bioacademia.co.jp https://www.bioacademia.co.jp/en/

Data Images: 81-015 Anti-Ferredoxin mix (Maize) antibody, rabbit polyclonal

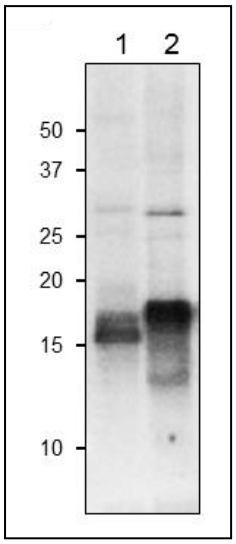

Fig.1 Western Blot of Fd in plant leaf extract.

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.

Reference. This antibody was described in Ref.1 and used in the following publications.

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**

BioAcademia,Inc. Tel. 81-6-6877-2335 Fax. 81-6-6877-2336 info@bioacademia.co.jp https://www.bioacademia.co.jp/en/