Anti-Leaf-FNR3 (Ferredoxin NADP Reductase, isoprotein 3) antibody, rabbit polyclonal

Product code	81-005
Size	100 µg
Storage	-20℃
Concentration	1.0 mg/ml
Buffer	PBS- with 50% glycerol
Purity	Purified IgG fraction with protein A from rabbit antiserum.
Immunogen	Purified recombinant maize leaf-FNR3 protein (full-size, no-tag attached)
Isotype	Rabbit IgG
Reactivity	Plant L-FNR proteins including Maize L-FNR3, L-FNR2 and L-FNR1, and Arabidopsis FNR1 and FNR2 in the order of reactivity in each species.
Special notes	Validation: Specificity has been validated by WB with recombinant full-size L-FNR3
Application	1. Western blotting (1/1,000-1/10,000 dilution) 2. ELISA (assay dependent) Other applications have not tested.
Background	Ferredoxin-NADP reductase, leaf isozyme 1 (L-FNR1) plays a key role in regulating the relative amounts of cyclic and non-cyclic electron flow to meet the demands of the plant for ATP and reducing power.
Data Link	UniProtKB B4FUM2 **(Z. mays)**

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

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Data Images: 81-005 Anti-Leaf FNR3 (Ferredoxin NADP Reductase, isoprotein 3) antibody, rabbit polyclonal

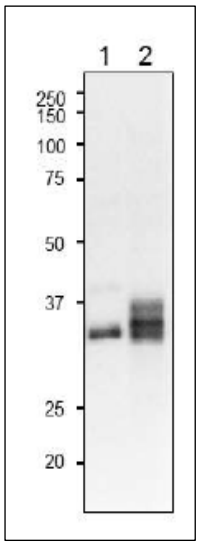

Fig.1 Western blot detecton of L-FNR isoproteins in plant leaf extracts with anti-L-FNR3 antibody.
Anti-L-FNR3 antiserum was used at 1/1,000 dilution. Second antibody (goat anti-rabbit IgG antibody HRP-conjugated, ab97051) was used at 1/10,000 dilution.
1. Arabidopsis leaf extract, 2 µg
2. Maize leaf extract, 2 µg
The antibody reacts with L-FNR3 and other L-FNR isoproteins in Maize and Arabidopsisleaf extracts. The molecular masses of mature forms of maize FNR1, FNR2 and FNR3 are 34.97, 35.57 and 34.7 kD, respectively (Ref 1)

Reference: The following publication contains useful information about maize FNR isozymes.

1. Okutani S., Hanke G.T., Satomi Y., Takao T., Kurisu G., Suzuki A. and Hase T. (2005) Three maize leaf ferredoxin:NADP(H) oxidoreductases vary in sub-chloroplast location, expression, and interaction with ferredoxin. **Plant Physiol**. 139, 1451-1459. **PubMed** 16244136 **WB; Maize**

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