

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

81-005 100 µg

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

Immunogen: Purified recombinant maize leaf-FNR3 protein (full-size, no-tag attached)

Form: 1 mg/ml in PBS⁻ with 50% glycerol. Filter sterilized. Azide and carrier protein are not added.

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.

Purity: IgG fraction. Affinity-purified with Protein A agarose from the rabbit antiserum.

Validation: Specificity has been validated by WB with recombinant full-size L-FNR3

Applications:

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: Swiss-Prot [B4FUM2](#) (*Z. mays*)

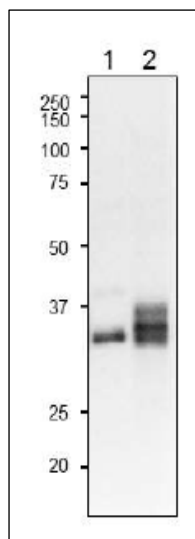


Fig.1 Western blot detection of L-FNR isoproteins in plant leaf extracts with anti-L-FNR3 antibody.

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 Arabidopsis leaf 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