

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

Cat. # **81-005** Size: **100 µg**

Background:

Ferredoxin-NADP reductase, leaf isozyme 3 (L-FNR3) 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.

Specifications:

Storage: Shipped at 4°C and store at -20°C.

Form: 1 mg/ml in PBS, 50% glycerol. Filter sterilized. No preservative or carrier added.

Purity: IgG, affinity-purified with protein A agarose from rabbit antiserum

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

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.

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 been tested.

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

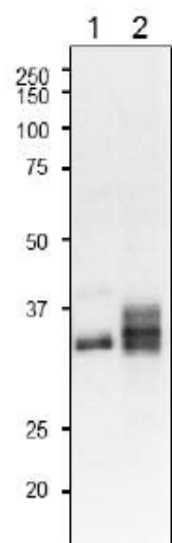
Fig.1 Western blot detecton of L-FNR isoproteins in plant leaf extracts with anti-L-FNR3 antibody..

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 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)



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

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