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

81-005　　100 µg

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

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 tested.

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

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

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)

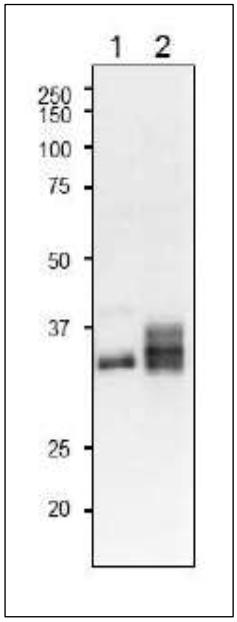

Fig.1　Western blot detecton of L-FNR isoproteins in plant leaf extracts with anti-L-FNR3 antibody..

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