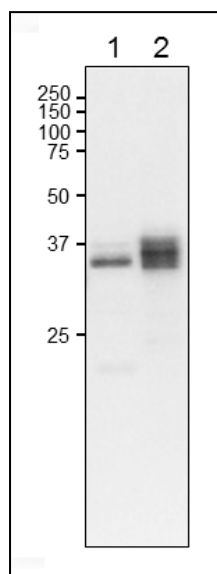


## Anti-Leaf-FNR2 (Ferredoxin NADP Reductase, isoprotein 2) antibody, rabbit polyclonal

<b>Product code</b>	81-003
<b>Size</b>	100 µg
<b>Storage</b>	-20°C
<b>Concentration</b>	1.0 mg/ml
<b>Buffer</b>	PBS <sup>-</sup> with 50% glycerol
<b>Purity</b>	Purified IgG fraction with protein A from rabbit antiserum.
<b>Immunogen</b>	Purified recombinant maize leaf-FNR2 protein (full-size, no-tag attached)
<b>Isotype</b>	Rabbit IgG
<b>Reactivity</b>	Plant L-FNR2 proteins including that of maize and arabidopsis. Reacts also with other FNR isoforms, Maize L-FNR1 and L-FNR3, and Arabidopsis L-FNR1
<b>Special notes</b>	N/A
<b>Application</b>	1. Western blotting (1/2,000-1/50,000 dilution) 2. ELISA (assay dependent) Other applications have not been tested.
<b>Background</b>	Ferredoxin-NADP reductase, leaf isozyme 2 (L-FNR2) 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. Subcellular location: Chloroplast
<b>Data Link</b>	UniProtKB <a href="#">Q8W493</a> ( <i>A. thaliana</i> ), <a href="#">Q9SLP5</a> ( <i>Z. mays</i> )
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

**Data Images:** 81-003 Anti-Leaf-FNR2 (Ferredoxin NADP Reductase, isoprotein 2) antibody, rabbit polyclonal



**Fig.1 Western Blot of L-FNR2 in plant leaf extract**

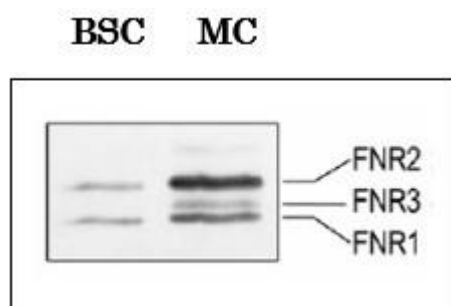
Anti-L-FNR2 antiserum was used at 1/2,000 dilution. Second antibody (goat anti-rabbit IgG antibody HRP-conjugated, ab97051) was used at 1/10,000 dilution.

1. *A. thaliana* leaf extract (10 µg)

2. *Z. mays* leaf extract (10 µg)

As shown, this antibody cross-reacts with other L-FRN isoproteins

The molecular masses of mature forms of maize FNR1, FNR2 and FNR3 are 34.97, 35.57 and 34.7 kD, respectively



**Fig.2 Cellular distribution of maize FNR isoproteins detected by western blotting**

BSC: Proteins (4 µg) extracted from bundle sheath cells.

MC: Proteins (4 µg) extracted from mesophyll cells.

Anti-FNR2 antibody was used at 1/50,000 dilution

**References:** This product has been used in the following publications.

1. Twachtmann M, Altmann B, Muraki N, Voss I, Okutani S, Kurisu G, Hase T, Hanke GT. “N-

terminal structure of maize ferredoxin:NADP<sup>+</sup> reductase determines recruitment into different thylakoid membrane complexes. *Plant Cell*. 2012, Jul;24(7):2979-91. PMID: [22805436](https://pubmed.ncbi.nlm.nih.gov/22805436/) **WB; Maize, Arabidopsis**