

Anti- NiR (Ferredoxin-nitrite reductase) antibody, rabbit polyclonal

81-028 100 μg

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

Immunogen: Purified recombinant cyanobacterium (*Synechocystis* strain 6803) NiR protein (full-size, no-tag attached) expressed in *E. coli*.

Reactivity: NiR protein of cyanobacterium (Synechocystis) and plant (spinach)

Applications:

1. Western blotting (1/1,000-1/2,000)

2. ELISA (assay dependent)

Other applications have not been tested.

Purity: IgG, affinity-purified with Protein A/G mix.

Form: 2 mg/ml in PBS, 50% glycerol. Filter sterilized. No preservative nor carrier protein added.

Background: Ferredoxin-nitrite reductase (NiR) is involved in the pathway nitrite reduction (assimilation), which is part of Nitrogen metabolism.

Data Link:UniProtKB: Q55366 (Synechocystis sp. strain PCC 6803), P05314 (Spinach) Reference: No publication using this antibody.

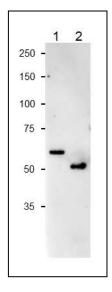


Fig.1 Western Blot of NiR protein of Cyanobacterium and Spinacch

Anti-NiR antibody was used at 1/1,000 dilution. Secondary antibody (goat anti-rabbit IgG antibody HRP-conjugated, ab97051) was used at 1/10,000 dilution.

- 1. Recombinant spinach NiR protein
- 2. Recombinant cyanobacterium (*Synechocystis* strain 6803) NiR protein

Molecular masses, for spinach NiR, 66 kDa , for Synechocystis NiR, 56 kDa.



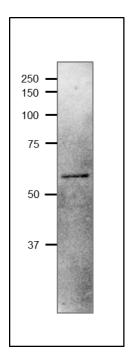


Fig.2 Western Blot of NiR protein in crude extrant of Cyanobacterium, *Synechocystis* sp,

Sample; Cell extract of Synechocystis sp. PCC 6803 10% gel

Anti-NiR antibody was used at 1/1,000 dilution. Secondary antibody (goat anti-rabbit IgG antibody HRP-conjugated, ab97051) was used at 1/10,000 dilution.

Molecular mass of Synechocystis NiR is 56 kDa