Anti-GltBD (NADPH-dependent glutamate synthase, cyanobacterium) antibody, rabbit polyclonal

81-027　200 µg

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

Immunogen: Purified recombinant cyanobacterium, *Leptolyngbya boryana (Plectonema boryanum),* glutamate synthase (full-size, no-tag attached)

Reactivity: Reacts with cyanobacteria glutamate synthase, GltB and GltD proteins.

Applications:

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

Other applications have not been tested.

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

Form: 4 mg/ml in PBS, 50% glycerol. Filter sterilized. No preservative nor carrier protein added.

Background: NADH-dependent glutamate synthase (GltBD) is involved in glutamate biosynthesis and consists of large subunit (GltB, 168 kDa) and small subunit (GltD, 54 kDa). It is required for non-photorespiratory ammonium assimilation.

Data Link:UniProtKB : Q51583 (gltB L.boryanum), Q51584 (gltD L.boryanum)

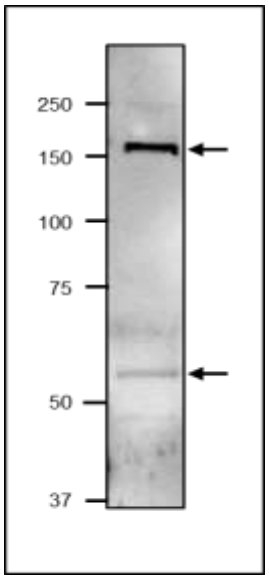

Fig.1　Western blot of GltBD protein in cyanobacterium.

Sample: Soluble fraction of *Synechocystis* sp. PCC6803 extract

Anti-GltBD antibody was used at 4 µg/ml. As the secondary antibody, goat anti-rabbit IgG antibody HRP-conjugated (ab97051) was used at 1/10,000 dilution.

Molecular mass of GltB (large subunit of NADPH-dependent GOGAT) is 168 kDa, GltD (small subunit of NADPH-dependent GOGAT) is 54 kDa.