

Anti D-lactate dehydrogenase (Ddh)

Background

Ddh is a D-lactate dehydrogenase (2-hydroxyaciddehydrogenase), catalyzing a reaction converting pyruvate to D-lactate [EC:1.1.1.28]. Ddh of a unicellular cyanobacterium *Synechocystis* sp. PCC 6803 specifically produces D-lactate from pyruvate. D-lactate are excreted from *Synechocytis* sp. PCC 6803 cell cultivated under dark, anaerobic conditions (fermentation). D-lactate is a promising chemicals used for various products such as bioplastics.

Product type Primary Antibody

Immunogen Synthetic peptide (CELFFTDHSDTIIQDD)

Raised in Rabbit

Source Serum

Purification Immunogen affinity purified

Buffer Phosphate Buffered Saline (PBS) with 50 % glycerol and ProClin 300 (15 ppm)

Concentration 2.04 mg/mL

Volume 100 uL

Label Unlabeled

Specificity Synechocystis sp. PCC 6803 Ddh

Storage Store at -20 ℃

Recommended Western blotting (1:4000)

Dilutions Other applications have not been tested or not reactive.

Optimal dilutions/concentrations should be determined by the end user.

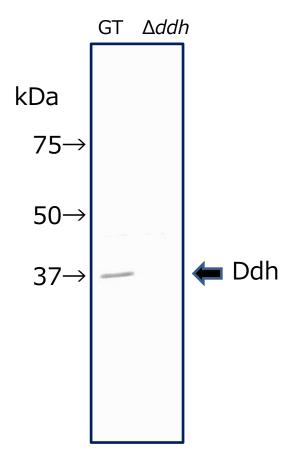


Fig 1. Western blot analysis of Ddh in glucose-tolerant strain of *Synechocystis* sp. PCC 6803 (GT) and in *ddh* deletion mutant (Δddh)

Predicted molecular weight: 36.9 kDa

Primary antibody: anti Ddh antibody at 1:4000 dilution

Secondary antibody: Alkaline phosphatase conjugated anti rabbit IgG antibody at

1:20000 dilution

For research use only, Not for diagnostic use.

