



# Anti glucose-6-phosphate dehydrogenase (Zwf)

## Background

Zwf (or G6PDH) is a glucose-6-phosphate dehydrogenase, catalyzing a reaction from glucose-6-phosphate and NADP<sup>+</sup> to 6-phosphogluconolactone and NADPH [EC:1.1.1.49]. Zwf/G6PDH from a unicellular cyanobacterium *Synechocystis* sp. PCC 6803 is biochemically characterized and its enzymatic activity is inhibited by citrate. Zwf/G6PDH is a key enzyme for sugar catabolism during heterotrophic and mixotrophic conditions of this cyanobacterium.

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Product type	Primary Antibody
Immunogen	Synthetic peptide (EWLINKDGRRWRRLC)
Raised in	Rabbit
Source	Serum
Purification	Immunogen affinity purified
Buffer	Phosphate Buffered Saline (PBS) with 50 % glycerol and ProClin 300 (15 ppm)
Concentration	0.44 mg/mL
Volume	100 uL
Label	Unlabeled
Specificity	<i>Synechocystis</i> sp. PCC 6803 Zwf
Storage	Store at -20 °C
Recommended Dilutions	Western blotting (1 : 6000) Other applications have not been tested or not reactive. Optimal dilutions/concentrations should be determined by the end user.

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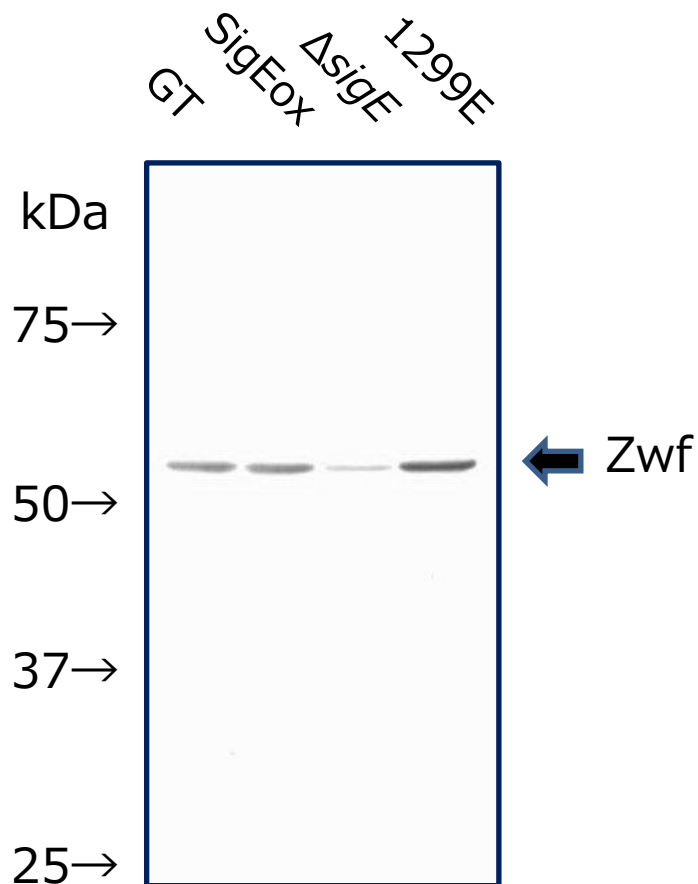


Fig 1. Western blot analysis of Zwf in glucose-tolerant strain of *Synechocystis* sp. PCC 6803 (GT), in *sigE* overexpressing strain (SigEox), in *sigE* deletion mutant ( $\Delta sigE$ ), and, in *sigE* overexpressing and *ackA* deletion mutant (1299E)  
 Predicted molecular weight : 57.9 kDa  
 Primary antibody : anti Zwf antibody at 1:6000 dilution  
 Secondary antibody : Alkaline phosphatase conjugated anti rabbit IgG antibody at 1:20000 dilution

For research use only, Not for diagnostic use.



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