

Anti-Tem1 (*S. cerevisiae*) antibody, affinity purified

62-215 100 µl

Tem1 is a low-molecular-weight GTP-binding protein (GTPase) which is required for the termination of M phase in cell division. The defect of Tem1 was lethal, and the Tem1-defective cells were arrested at telophase with high H1-kinase activity, indicating that Tem1 is required to exit from M phase. The defect of Tem1 was suppressed by a high dose of *cdc15*, which encodes a protein kinase. Tem1 functions upstream of *cdc15* kinase and may be required to activate the *cdc15* protein kinase pathway. A cascade consisting of Tem1 and kinases act to terminate mitosis.

This product is a rabbit polyclonal antibody affinity purified with the immunogen after adsorption of anti-GST antibody with GST—affinity column.

Applications

- 1) Western blot 1/250~1/500
- 2) Immunoprecipitation

Specification

Immunogen: GST-full length Tem1 fusion protein expressed in *E. coli*

Form: Affinity purified IgG (unknown concentration) in PBS, 1 mg/ml BSA as carrier, 0.09 % sodium azide, 50% glycerol

Reactivity: *S. cerevisiae* Tem1, not tested with other species

Storage: Ship at 4°C and stored at -20°C

Data Link

SGD [TEM1/YML064C](https://www.yeastgenome.org/locus/YML064C)

References:

1. Shirayama M *et al* "The yeast TEM1 gene, which encodes a GTP-binding protein, is involved in termination of M phase." *Mol Cell Biol* 14, 7476-7482 (1994) PMID: [7935462](https://pubmed.ncbi.nlm.nih.gov/7935462/)
2. Shou W *et al* "Exit from mitosis is triggered by Tem1-dependent release of protein phosphatase Cdc14 from nucleolar RENT complex." *Cell* 97:233-244 (1999) PMID: [10219244](https://pubmed.ncbi.nlm.nih.gov/10219244/)
3. Lippincott J *et al* "The Tem1 small GTPase controls actomyosin and septin dynamics during cytokinesis." *J Cell Sci* 114:1379-1386 (2001) PMID: [11257003](https://pubmed.ncbi.nlm.nih.gov/11257003/)

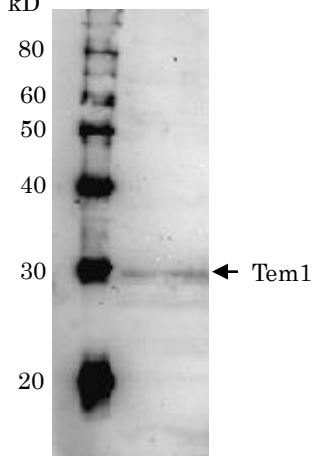


Fig.1. Detection of Tem1 (28kD) in the crude extract of *S. cerevisiae* by Western blot using this antibody.

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