

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

62-215 100 ul

Background: **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.

Applications:

- 1) Western blotting (1/250~1/500)
- 2) Immunoprecipitation

Product: Rabbit polyclonal antibody affinity purified with the immunogen after adsorption of anti-GST antibody with GST–affinity column.

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

Form: Affinity purified IgG in PBS, 1 mg/ml BSA, 0.09 % sodium azide, 50% glycerol

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

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

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

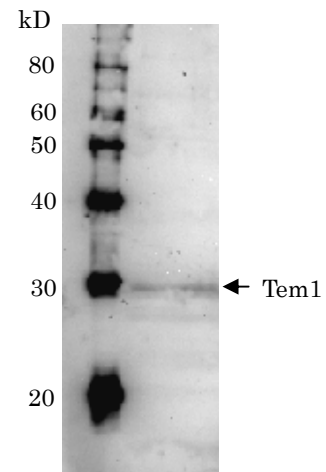


Fig.1 Detection of Tem1 (28kD) in the crude extract of *S. cerevisiae* by Western blotting using this antibody.

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