

Anti-Rpn9 (*S.cerevisiae*) antibody, purified

62-207 100 ul

Background: The 26 S proteasome is a protein complex with a molecular mass of ~2,000 kDa. It is essential not only for eliminating damaged or misfolded proteins but also for degrading short lived regulatory proteins involved in cell cycle regulation, DNA repair, signal transduction, apoptosis, and metabolic regulation (ref.1). The 26S proteasome is composed of the 20S core particle (CP) and the 19S regulatory particle (RP). The RP is further subdivided into lid and base sub-complexes. **Rpn9** is one of the non-ATPase subunits of lid. **Rpn9** plays a key role in facilitating the assembly of the 26S proteasome or in stabilizing the structure of the 26S proteasome. **Rpn9** null mutant is temperature sensitive and exhibits cell cycle and proteasome assembly defects.

Applications:

- 1) Western blotting (1/1,000~1/2,000)
- 2) Immunoprecipitation

Product: Rabbit polyclonal antibody against Rpn9

Immunogen: GST-full length Rpn9 fusion protein expressed in *E. coli* (ref.2)

Form: Purified IgG in PBS, 1 mg/ml BSA, 0.09% sodium azide, 50% glycerol
Antiserum containing anti-Rpn9 antibody was passed through a GST-Sepharose column to remove anti-GST antibody. Anti-Rpn9 antibody in the pass-through fraction was further purified on a protein A column (ref.2).

Reactivity: *S. cerevisiae* Rpn9, not tested with other species

Storage: -20

Data Link SGD [RPN9/YDR427W](https://www.yeastgenome.org/locus/RPN9/YDR427W)

References: This antibody has been used in Ref. 2

1. Hershko A and Ciechanover A "THE UBIQUITIN SYSTEM." *Annu. Rev. Biochem.* **67**, 425-479 (1998) PMID: [9759494](https://pubmed.ncbi.nlm.nih.gov/9759494/)
2. Takeuchi J *et al* "Rpn9 is required for efficient assembly of the yeast 26S proteasome." *Mol Cell Biol* **19**:6575-6584 (1999) PMID: [10490597](https://pubmed.ncbi.nlm.nih.gov/10490597/)

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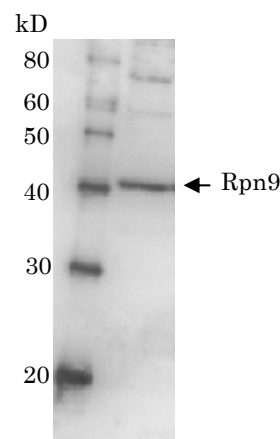


Fig.1 Detection of Rpn9 (46kD) in the crude extract of *S. cerevisiae* by Western blotting using this antibody.