

Anti-Rpn7 (*S.cerevisiae*) antibody, affinity purified

62-205 100 ul

Background: The 26 S proteasome is a protein complex with a molecular mass of ~2000 kDa and is highly conserved among eukaryotic organisms. 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 (1). Rpn7 is one of the lid subunits of the 26 S proteasome regulatory particle (1, 2). The RPN7 gene is known to be essential and required for the integrity of the 26 S complex by establishing a correct lid structure (3, 4).

Applications

1) Western blotting (~1000 fold dilution) 2) Immunoprecipitation 3) Not tested for other applications

Specification

Product: Rabbit polyclonal antibody affinity purified with recombinant Rpn7p

Immunogen: Recombinant yeast Rpn7p expressed in *E. coli* (Ref. 4)

Form: Purified IgG in 100 mM NaCl, 10 mM Tris-HCl pH 7.4, 0.05 % sodium azide

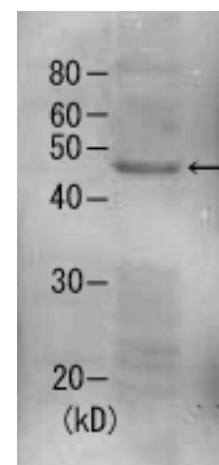
Reaction: *S. cerevisiae* Rpn7p. Not tested with other species

Storage: -20 C. To avoid repeated freezing and thawing, store the antibody solution in aliquots.

Reference: This product was used in ref. 3 and 4

1. Hershko, A., and Ciechanover, A. THE UBIQUITIN SYSTEM *Annu. Rev. Biochem.* **67**, 425-479 (1998)
2. Finley D, et al. Unified nomenclature for subunits of the *Saccharomyces cerevisiae* proteasome regulatory particle. *Trends Biochem Sci* **23**:244 (1998)
3. Isono E, et al. Rpn7 Is required for the structural integrity of the 26 S proteasome of *Saccharomyces cerevisiae* *J Biol Chem.* **279**:27168-76 (2004)
4. Isono E, et al. The assembly pathway of the 19S regulatory particle of the yeast 26S proteasome *Mol. Biol. Cell* **18**: 569 (2007)

Figure. Detection of Rpn7 (49 kDa) in the crude extract of *S. cerevisiae* by Western blotting using this antibody.



Related products: #62-201 anti-Rpn3, #62-203 anti-Rpn5, #62-207 anti-Rpn9, #62-209 anti-Rpn12, #62-211 anti-Nob1, #62-213 anti-Nas6, #62-215 anti-Tem1