

Anti-Rpn5 (*S.cerevisiae*) antibody, affinity purified

62-203 100 ul

Background: The 26 S proteasome is a protein complex with a molecular mass of \approx 2000 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 (1). Rpn5p is essential, non-ATPase regulatory subunit of the 26S proteasome lid, similar to mammalian p55 subunit and to another *S. cerevisiae* regulatory subunit, Rpn7 (2, 3,). It consists of 445 amino acids with molecular weight of 51,768.

Applications

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

Specification

Product: Rabbit polyclonal antibody affinity purified with recombinant Rpn5p

Immunogen: Recombinant yeast Rpn5p expressed in *E. coli*

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

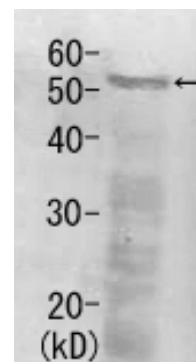
Reactivity: *S. cerevisiae* Rpn5p. Not tested with other species

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

Reference: This product was used in ref. 3

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. The assembly pathway of the 19S regulatory particle of the yeast 26S proteasome. *Mol. Biol. Cell* 18: 569 (2007)

Figure. Detection of Rpn5 (52 kDa) in the crude extract of *S. cerevisiae* by Western blotting using this antibody.



Related products: #62-201 anti-Rpn3, #62-205 anti-Rpn7, #62-207 anti-Rpn9, #62-209 anti-Rpn12, #62-211 anti-Nob1, #62-213 anti-Nas6, #62-215 anti-Tem1