

Anti-Rpn12(*S. cerevisiae*) antibody, rabbit polyclonal

Product code	62-209
Size	50 µl
Storage	-20°C
Concentration	N/A
Buffer	1 mg/ml BSA, 0.09 % sodium azide and 50% glycerol in PBS-
Purity	IgG fraction purified with affinity chromatography from rabbit antiserum
Immunogen	Recombinant yeast Rpn12 expressed in <i>E. coli</i> (Ref. 2)
Isotype	Rabbit IgG
Reactivity	<i>S. cerevisiae</i> Rpn12 protein Not tested with other species.
Special notes	N/A
Application	1. Western blotting (1/5000-1/10000) 2. Immunoprecipitation Not tested for other applications
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. Rpn12 is one of the non-ATPase subunits of the lid. Rpn12 interacts with an ATPase subunit, Rpt1, of the base. Rpn12 , Rpt1 double mutant becomes lethal, suggesting a strong interaction between Rpn12 and Rpt1. In the double mutant cells, the function of the 26S proteasome is completely eliminated.
Data Link	SGD RPN12/YFR052W
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

Data Images: 62-209 Anti-Rpn12 (*S. cerevisiae*) antibody, rabbit polyclonal

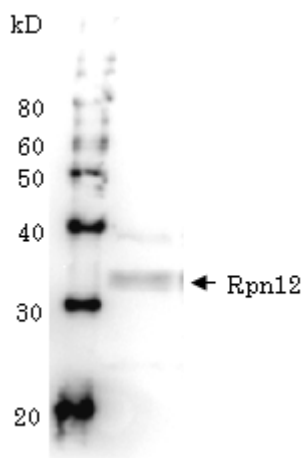


Fig.1 Detection of Rpn12 (32kDa) in the crude extract of *S. cerevisiae* by Western blotting using this antibody.

Reference: 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](#)
2. Takeuchi J and Toh-e A "Genetic evidence for interaction between components of the yeast 26S proteasome: combination of a mutation in RPN12 (a lid component gene) with mutations in RPT1 (an ATPase gene) causes synthetic lethality." *Mol Gen Genet* **262**:145-153 (1999) PMID: [10503546](#)
3. Tone Y *et al* "Nob1p, a new essential protein, associates with the 26S proteasome of growing *saccharomyces cerevisiae* cells." *Gene* **243**:37-45 (2000) PMID: [10675611](#)

Related products:

- 62-200 anti-Rpn1 (*S. cerevisiae*) antibody, rabbit serum
- 62-201 anti-Rpn3 (*S. cerevisiae*) antibody, rabbit polyclonal
- 62-203 anti-Rpn5 (*S. cerevisiae*) antibody, rabbit polyclonal
- 62-205 anti-Rpn7 (*S. cerevisiae*) antibody, rabbit polyclonal
- 62-207 anti-Rpn9 (*S. cerevisiae*) antibody, rabbit polyclonal
- 62-211 anti-Nob1 (*S. cerevisiae*) antibody, rabbit polyclonal
- 62-213 anti-Nas6/p28 (*S. cerevisiae*) antibody, rabbit polyclonal
- 62-215 anti-Tem1 (*S. cerevisiae*) antibody, rabbit polyclonal