

## Anti-Rpn1 / Nas 1 (*S.cerevisiae*) antibody, rabbit polyclonal

# 62-200 100 µl

**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. 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. Rpn1 is a proteasome-interacting protein which acts as a chaperon to assemble the base sub-complex of the 19S RP. Rpn1 is composed of 993 amino acid residues with a calculated molecular mass of 109 kDa.

### Applications

1) Western blot (1,000~2,000 fold dilution)  
Not tested for other applications

### Specification

Immunogen: Synthetic peptide corresponding to a C-terminal region of Rpn (849~860)  
Product: Rabbit antiserum added with 0.1% sodium azide  
Reactivity: *S. cerevisiae* Rpn1/Nas1. Not tested with other species.  
Storage: Shipped at 4°C. Upon arrival, spin-down and store at -20°C.

**Data Link:** UniProKB P38764 (RPN1 of *S. cerevisiae*)

### Reference:

Tsurumi C. et al. cDNA cloning and functional analysis of the p97 subunit of the 26S proteasome, a polypeptide identical to the type-1 tumor necrosis factor receptor associated protein 2/55.11. *Eur J Biochem.* 1996 239(3):912-21.



**Fig.1 Detection of Rpn1 in the crude extract of *S. cerevisiae* by Western blot using this antibody**

Crude cell extract of *S. cerevisiae* (20 µg) was analysed by Western blot using anti-Rpn1 antibody at 1/1,000 dilution. Blotting should be done in wet system. Molecular mass of Rpn1 is 109 kDa