

anti-Sup35/PSI+ (*S.cerevisiae*) antibody, rabbit polyclonal IgG

62-300 100 ul

Background: Sup35 protein of *S. cerevisiae* is the translation termination factor eRF3. The altered conformation of this protein generates the [PSI⁺] prion phenotype (1). In this state, a dominant cytoplasmically inherited protein aggregates are formed which sequester the normal function of Sup35 thereby nonsense suppressor phenotype is created (2). The molecular chaperon Hsp104 is necessary for the formation and maintenance of the aggregates (3, 4).

Applications

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

Product: Rabbit polyclonal antibody, purified IgG fraction

Immunogen: Synthetic peptide corresponding to a.a. 494-507 of Sup35

Form: Purified IgG 8 mg/ml in PBS, 50% glycerol, 0.09% sodium azide,

Reactivity: *S. cerevisiae* Sup35, not tested with other species

Storage: -20°C (for longer period, -70°C)

Data Link SGD [SUP35/YDR172W](#)

References: This antibody was used in ref.4.

1. Paushkin, S.V. *et al.* "Propagation of the yeast prion-like PSI⁺ determinant is mediated by oligomerization of the SUP35-encoded polypeptide chain release factor." *EMBO Journal* **15**, 3127-3134 (1996) PMID: [8670813](#)
2. Salnikova, A.B. *et al.* "Nonsense suppression in yeast cells overproducing Sup35 (eRF3) is caused by its non-heritable amyloids." *J.Biol.Chem.* **280**, 8808-8812 (2005).
PMID: [15618222](#)
3. Chernoff, Y.O. *et al.* "Role of the chaperone protein Hsp104 in propagation of the yeast prion-like factor [psi+]." *Science* **268**,880-884 (1995) PMID: [7754373](#)
4. Kimura, Y. *et al.* "The role of pre-existing aggregates in Hsp104-dependent polyglutamine aggregate formation and epigenetic change of yeast prions." *Genes to Cells* **9**, 685-696 (2004)
PMID: [15298677](#)

Related product: #62-302 anti-Rnq1 (*S. cerevisiae*) antibody

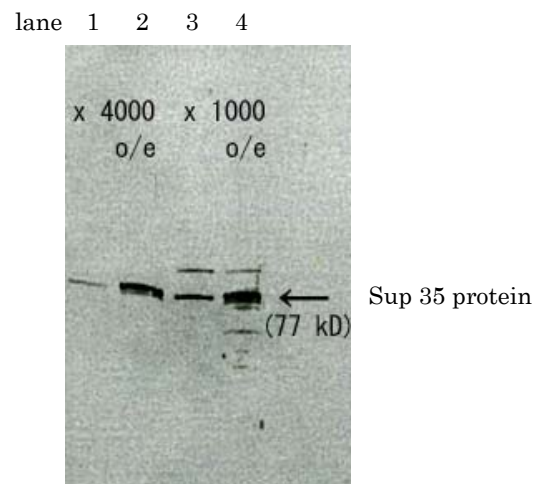


Fig.1 Detection of Sup35 protein in crude extract of *S. cerevisiae* by Western blotting with this antibody.

lane 1,2 : x 4000 dilution

lane 3,4 : x 1000 dilution

lane 1,3 : endogenous expression

lane 2,4 : overexpression