anti-Sup35/PSI+ (*S.cerevisiae*) antibody, affinity purified

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, antigen- affinity purified

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

Form:　Affinity-purified antibody　in PBS, 1mg/ml BSA, 0.09% sodium azide, 50% glycerol

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

Storage:　-20℃ (for longer period, -70℃)

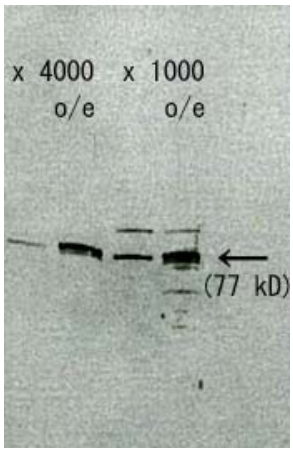
Data Link　SGD SUP35/YDR172W

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

lane　1　2　3　4



Sup 35 protein

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

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