COSMO BIO CO., LTD.
Inspiration for Life Science

POLYCLONAL ANTIBODY

For research use only. Not for clinical diagnosis.

Catalog No. BAM-62-300-EX

Anti-Sup35/PSI+ (*S.cerevisiae*)

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).

Product type	Primary antibodies
Host	Rabbit
Source	
Form	Liquid
	Purified IgG 8 mg/ml in PBS, 50% glycerol, 0.09% sodium azide,
Volume	100 μl
Concentration	
Specificity	
Antigen	Synthetic peptide corresponding to a.a. 494-507 of Sup35
Isotype	IgG

Application notes

WB Not tested for other applications.

Recommended use

Recommended dilutions

Western blotting: 1,000 - 2,000 fold dilution

Optimal dilutions/concentrations should be determined by the end user.

Data Link: SGD SUP35/YDR172W

Staining Pattern

Cross reactivity *S. cerevisiae* Sup35, not tested with other species

Storage -20°C (for long period, -70°C)

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

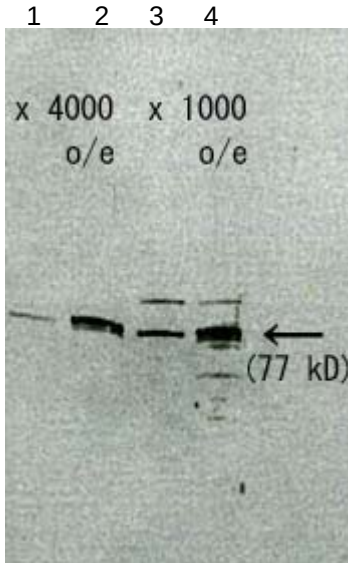

Fig.1 Detection of Sup35 protein in crude extract of *S. cerevisiae* by Western blotting with this antibody.
Lane 1,2 : x 4000 dilution
Lane 3,4 : x 1000 dilution
Lane 1,3 : endogenous expression
Lane 2,4 : overexpression

Related Products

BAM-62-302-EX	Anti-Rnq1 (*S. cerevisiae*) antibody

For research use only. Not for clinical diagnosis.

Manufactured by BioAcademia,Inc.

COSMO BIO CO., LTD.
Inspiration for Life Science
TOYO 2CHOME, KOTO-KU, TOKYO, 135-0016, JAPAN
http://www.cosmobio.co.jp/index_e.asp E-mail: export@cosmobio.co.jp
Phone : +81-3-5632-9617 FAX : +81-3-5632-9618