



Anti-Rng1 (S. cerevisiae) antibody, affinity purified 100 ul

62-301

Background: The glutamine- and asparagine-rich protein, Rnq1, is a putative yeast prion. Rng1 protein with yet unknown function, can exists in either noninfectious soluble monomer form, [pin-], or the insoluble aggregated amyloid-like form called [PIN+]. The insoluble state is dominant and transmitted between cells through the cytoplasm (1). Rng1 protein is necessary for the de novo induction of another prion, [PSI+] (2). The molecular chaperone Hsp104 is necessary for the aggregate formation of polyglutamine and for the maintenance of prion phenotype. The pre-existing aggregates are required for the chaperon-dependent establishment of the epigenetic trait in yeast prions (3).

Applications

1) Western blotting (300 fold dilution). Not tested for other applications.

Specifications

Product: Rabbit polyclonal antibody affinity purified with the synthetic peptide used as antigen

Immunogen: Synthetic peptide CSQQNNNGNQNRY corresponding to the C-terminus region of Rna1

Form: Purified IgG in PBS, 1mg/ml BSA, 0.09% sodium azide, 50% glycerol

Reactivity: S. cerevisiae Rng1, not tested with other species

Storage: -20°C (long-term storage at -70°C)

Data Link SGD RNQ1/YCL028W

References

This antibody is used in ref.3.

1. Sondheimer N & Lindquist S "Rnq1: an epigenetic modifier of protein function in yeast" Mol Cell 5: 163-172 (2000) PMID: 10678178

2. Derkatch IL et al "Effects of Q/N-rich, polyQ, and non-polyQ amyloids on the de novo formation of the [PSI+] prion in yeast and aggregation of Sup35 in vitro" Proc Natl Acad Sci USA 101:12934-12939 (2004) PMID: 15326312

3. KimuraY et al "The role of pre-existing aggregates in Hsp104dependent polyglutamine aggregate formation and epigenetic change of yeast prions" Genes to Cells 9: 685-696 (2004)

Fig.1 Detection of Rng1 protein in S. cerevisiae by Western blotting with this antibody.

Cells were harvested after 24 h of galactose induction. Extracts were centrifuged and soluble (S) and pelleted (P) fractions were assayed by Western blotting using this antibody. Rng1 protein was detected in pelleted fraction (ref. 3).



Rng1 protein

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