SUP35 polyclonal antibody

Catalog # PAB15578 Size 100 uL

Applications



Western Blot

Identification of SUP35 protein in crude extracts of S. cerevisiae by western blotting with SUP35 polyclonal antibody (Cat # PAB15578) was used at 1/2,000 dilution. SUP35 protein was identified about 77 kDa position (Molecular mass of SUP35 is 76.6 kDa). Lane 1: Endogenous expression in S. cerevisiae. Lane 2: Overexpression of SUP35 protein by introduction of a plasmid carrying SUP35 gene into S. cerevisiae.

| Specification | |
|---------------------|---|
| Product Description | Rabbit polyclonal antibody raised against synthetic peptide of SUP35. |
| Immunogen | A synthetic peptide corresponding to amino acids 494-507 of Saccharomyces cerevisiae SUP35. |
| Host | Rabbit |
| Reactivity | Yeast |
| Specificity | This antibody reacts with <i>S. cerevisiae</i> SUP35. |
| Form | Liquid |
| lsotype | lgG |
| Recommend Usage | Western Blot (1:1000-1:2000) |
| | The optimal working dilution should be determined by the end user. |
| Storage Buffer | In PBS (50% glycerol, 0.09% sodium azide). |
| Storage Instruction | Store at -20°C. Aliquot to avoid repeated freezing and thawing. |

🗑 Abnova

Product Information

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

Western Blot

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Lane 1: Endogenous expression in S. cerevisiae.

Lane 2: Overexpression of SUP35 protein by introduction of a plasmid carrying SUP35 gene into S. cerevisiae.

| Gene Info — SUP35 | |
|--------------------|---|
| Entrez GenelD | <u>851752</u> |
| Gene Name | SUP35 |
| Gene Alias | GST1, PNM2, SAL3, SUF12, SUP2, SUP36 |
| Gene Description | Sup35p |
| Gene Ontology | Hyperlink |
| Gene Summary | a dominant cytoplasmically inherited protein aggregate that alters translational fidelity and creates a nonsense suppressor phenotype |
| Other Designations | Translation termination factor eRF3; altered protein conformation creates the [PSI(+)] prion, a do minant cytoplasmically inherited protein aggregate that alters translational fidelity and creates a n onsense suppressor phenotype |

Publication Reference

Targeted identification of protein interactions in eukaryotic mRNA translation.

Link AJ, Niu X, Weaver CM, Jennings JL, Duncan DT, McAfee KJ, Sammons M, Gerbasi VR, Farley AR, Fleischer TC, Browne CM, Samir P, Galassie A, Boone B.

Proteomics 2020 Apr; 20(7):e1900177.

Application: WB, Yeast, S. cerevisiae TAP strain



 The role of pre-existing aggregates in Hsp104-dependent polyglutamine aggregate formation and epigenetic change of yeast prions.

Kimura Y, Koitabashi S, Kakizuka A, Fujita T. Genes to Cells: Devoted to Molecular & Cellular Mechanisms 2004 Aug; 9(8):685.

Application: WB, Yeast, Yeast extracts

• Propagation of the yeast prion-like [psi+] determinant is mediated by oligomerization of the SUP35-encoded polypeptide chain release factor.

Paushkin SV, Kushnirov VV, Smirnov VN, Ter-Avanesyan MD. The EMBO Journal 1996 Jun; 15(12):3127.

• Role of the chaperone protein Hsp104 in propagation of the yeast prion-like factor [psi+].

Chernoff YO, Lindquist SL, Ono B, Inge-Vechtomov SG, Liebman SW. Science 1995 May; 268(5212):880.

Application: WB-Ce, WB-Tr, Human, Mammalian cells