

Product datasheet

Anti-NSP1 antibody [32D6] ab4641

★★★★★ [1 Abreviews](#) [8 References](#) [1 Image](#)

Overview

Product name	Anti-NSP1 antibody [32D6]
Description	Mouse monoclonal [32D6] to NSP1
Host species	Mouse
Specificity	<p>This antibody was initially identified as directed against a nuclear pore complex antigen by immunofluorescence localization. A screen of a lgt11 expression library yielded a single positive clone carrying an insert bearing ~66% of the C-terminal portion of NSP1. To confirm that 32D6 possessed high affinity for NSP1, strain RS453, which expresses a shortened isoform of NSP1, was compared to the wildtype strain BJ5465. NSP1 in RS453 contains an internal deletion that removes the coding sequence for 6 FXFG repeats, which are not essential for function and encodes a protein that has been observed to migrate at approximately 85 kDa on SDS gels. The predicted size of wildtype NSP1 is 86.5 kDa, but NSP1 has been observed to migrate on SDS gels at ~100 kDa. In our gels, the apparent molecular mass of wildtype NSP1 was 108 kDa, whereas the short isoform of NSP1 in RS453 migrated at 91 kDa. The detection of two protein bands of apparent sizes 108 kDa and 91 kDa in BJ5465 and RS453, respectively, demonstrated that 32D6 recognized the pore complex protein NSP1.</p>
Tested applications	Suitable for: ICC/IF, WB
Species reactivity	Reacts with: <i>Saccharomyces cerevisiae</i>
Immunogen	Tissue, cells or virus corresponding to NSP1. Yeast nuclear preparations
General notes	<p>This antibody is a useful marker of yeast nuclear pores.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Storage buffer	Preservative: 0.065% Sodium azide Constituent: Tissue culture supernatant
Purity	Tissue culture supernatant
Purification notes	Sterile filtered.
Primary antibody notes	This antibody is a useful marker of yeast nuclear pores.
Clonality	Monoclonal
Clone number	32D6
Isotype	IgG

Applications

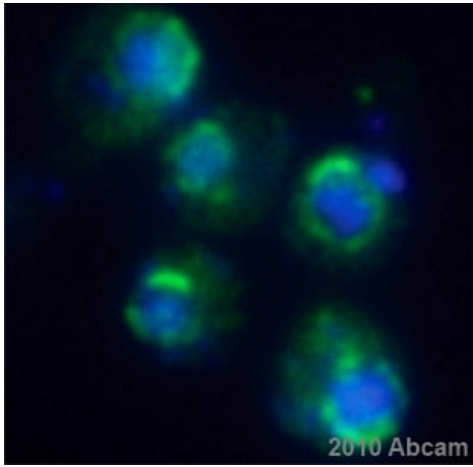
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab4641 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★★★ (1)	1/1000. Yeast cells.
WB		1/10000 - 1/50000. Detects a band of approximately 108,91 kDa (predicted molecular weight: 85 kDa). 1/10000 (cell lysates) - 1/50000 (nuclear fractions). For other (non-ECL) detection methods, 1/1000 - 1/5000.

Target

Relevance	NSP1 functions as a component of the nuclear pore complex (NPC). It plays an important role in several nuclear transport pathways including poly(A)+ RNA, tRNA, pre-ribosome, signal recognition particle (SRP), and protein transport.
Cellular localization	Nuclear membrane: part of the nuclear pore complex, it presents a symmetric distribution with a cytoplasmic and a nucleoplasmic side.

Images



ab4641 (1/5000) detecting NSP1 in *Saccharomyces cerevisiae* DDY1810 (green). Cells were fixed in paraformaldehyde, permeabilized in methanol/acetone and counterstained with DAPI in order to highlight the nucleus (blue). For further experimental details please refer to Abreview.

Immunocytochemistry/ Immunofluorescence - Anti-NSP1 antibody [32D6] (ab4641)

Image courtesy of an anonymous Abreview.

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