

**Ordering Information** Web www.encorbio.com Email admin@encorbio.com Phone 352-372-7022 Fax 352-372-7066

HGNC Name: N.A. UniProt: G2WGX7 RRID: AB 2157646

Immunogen: Yeast nuclear preparations

Format: Concentrated hybridoma tissue culture media plus 5mM NaN₃

Storage: Store at 4°C for short term, for longer term at -20°C. Avoid freeze/thaw cycles.

Recommended dilutions:

WB: 1:10,000 (cell lysates), 1:50,000 (nuclear fractions). IF/ICC and IHC: 1:1,000-1:10,000.

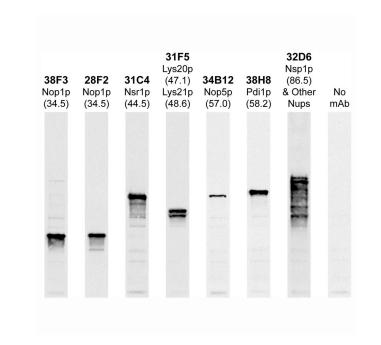
### References:

- 1. Belgareh N, et al. Functional characterization of a Nup159p-containing nuclear pore subcomplex. Mol. Biol. Cell 9:3475-92 (198).. 2. Tolerico LH, et al. Saccharomyces cerevisiae Mod5p-II contains sequences antagonistic for nuclear and cytosolic locations. Genetics 151:57-75 (1999).
- 3. Fahrenkrog B, et al. Comparative spatial localization of protein-A-tagged and authentic yeast nuclear pore complex proteins by immunogold electron microscopy. J. Struct. Biol. 129:295-305 (2000)

Peer Reviewed Articles using this antibody 1. Brickner DG, Light W, Brickner JH. Quantitative localization of chromosomal loci by immunofluorescence. Methods Enzymol. 470:569-80 (2010).

# Nsp1p Mouse Monoclonal **Antibody**

Applications	Host	Isotype	Molecular Wt.	Species Cross-Reactivity
WB, IF/ICC, IHC, IP	Mouse	lgG1	86.5kDa	Sc



MCA-32D6

Western blots of whole yeast protein extracts with a collection of our antibodies. The blot for MCA-32D6 is in the indicated lane, and the number indicates the SDS-PAGE molecular weight in kiloDaltons.

## **Background:**

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The Nsp1p protein is an essential component of the nuclear pore complex of the yeast Sacchoromyces cerevisiae. It is also known as J1207, nucleoporin NSP1, YJL041W and nucleoskeletal-like protein. The central region of the protein sequence is dominated by multiple 19 amino acid repeats each beginning with peptide of the sequence FSFG or a close homolog. The Nsp1p protein is know to interact with Nup82p and Nup159p, two other nuclear pore complex proteins The MCA-32D6 antibody was originally made against a fraction from a yeast nuclear preparation which was rich in nucleoli (2). The antibody recognized yeast nuclear pore complexes in immunofluorescence experiments. Subsequently a screen of a Agt11 expression library yielded a single positive clone carrying an insert encoding ~66% of the C-terminal portion of Nsp1p, and subsequent western blotting of yeast extracts was consistent with this (2,3). This antibody is therefore a useful marker of yeast nuclear pores.

### FOR RESEARCH USE ONLY. NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE.

## Abbreviation Key:

mAb-Monoclonal Antibody pAb-Polyclonal Antibody WB-Western Blot IF-Immunofluorescence ICC-Immunocytochemistry IHC-Immunohistochemistry E-ELISA Hu-Human Mo-Monkey Do-Dog Rt-Rat Ms-Mouse Co-Cow Pi-Pig Ho-Horse Ch-Chicken Dr-D. rerio Dm-D. melanogaster Sm-S. mutans Ce-C. elegans Sc-S. cerevisiae Sa-S. aureus Ec-E. coli.