



Ordering Information
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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:

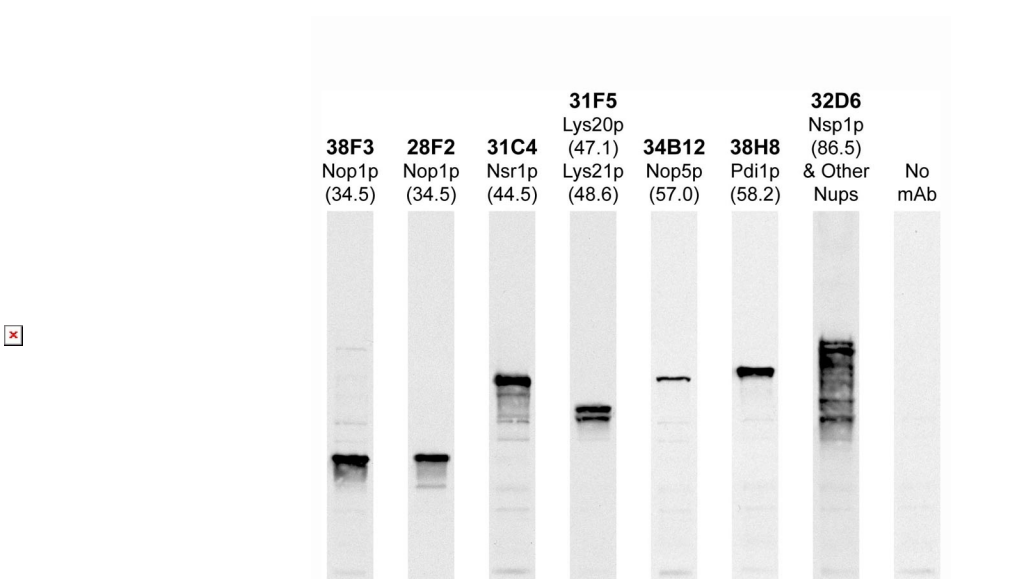
1. Belgareh N, et al. Functional characterization of a Nup159p-containing nuclear pore subcomplex. *Mol. Biol. Cell* 9:3475-92 (1998)..
 2. Tolerico LH, et al. *Saccharomyces cerevisiae* Mod5p-II contains sequences antagonistic for nuclear and cytosolic locations. *Genetics* 151:57-75 (1999).
 3. Fahrenkrog 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

MCA-32D6

Applications	Host	Isotype	Molecular Wt.	Species Cross-Reactivity
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WB, IF/ICC, IHC, IP	Mouse	IgG1	86.5kDa	Sc
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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:

The Nsp1p protein is an essential component of the nuclear pore complex of the yeast *Saccharomyces 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 known to interact with Nup82p and Nup159p, two other nuclear pore complex proteins (1). The MCA-32D6 antibody was originally made against a fraction from a yeast nuclear preparation which was rich in nucleoli (2).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 λ gt11 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.

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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*.